



# Mission Critical Server Solutions

- NVMe • U.2/Ruler/NF1 • 100G/40G/25G Ethernet • 100G IB/OPA • SRSD™
- Intel® Xeon® Scalable Processors



## 45-Bay Top-Load Server

- 45x 3.5" Hot-swap SAS3/SATA3 drive bays
- + 2 rear 2.5" bays
- + 6 NVMe (optional)



SSG-6048R-E1CR45N/L

- 45x 3.5" hot-swap SAS3/SATA3 drive bays
- 2x 3.5" hot-swap drive bays (rear), 6 optional NVMe bays
- SAS3 via Broadcom 3008 (IT mode) or 3108 w/ HW RAID
- DP Xeon™ 24 DIMMs, 2x 10/25/40/100G Ethernet
- Redundant 1600W Platinum Level power

## 4-Node 3UPI BigTwin™ - 2U

- Resource Saving Architectures; 3 UPI for 50% increased CPU-CPU bandwidth; Platinum (81xx) and Gold (61xx) CPU features (3UPI)



SYS-2029BZ-HNR

### 2U BigTwin per node:

- Up to 3TB ECC Reg. DDR4-2666MHz in 24 DIMMs
- 6 NVMe/SAS3 hybrid drive bays
- 100G/40G/10G onboard SIOM options
- 2 low-profile PCI-E 3.0 x16 slots
- Dual Intel® Xeon® Scalable Processors up to 205W TDP
- N+1 cooling redundancy with 4 cooling fans
- Redundant 2600W Titanium Level PWS per system

## Disaggregated Resource Saving Architecture SuperBlade® 6U

- 14/10 hot-swap DP or UP nodes in 6U

SBI-6429P-C3N  
(2S Blade)

SBI-6419P-C3N  
(1S Blade)

Future Proof Disaggregated Compute and Storage Modules, Enclosure, Power, Networking, and Management

### Highest Performance – Up to 205W Intel® Xeon® Scalable Processors

- Maximum Memory Capacity – 24 DIMMs (2S), 12 DIMMs (1S)
- 14 Blades – 14x 2S or 14x 1S with 2x 25G/10G switches, 1 CMM
- 10 Blades – 10x 2S or 10x 1S with 4x 25G/10G switches, 2 CMM
- Redundant (N+1/N+N) Platinum (96% efficiency) AC power supplies
- Redundant (N+1/N+N) DC power supplies
- Battery Backup Power (BBP) modules
- Free Air Cooling

# X11 Solutions

Intel® Xeon® Scalable Processors Supported



Ultra	GPU/Coprocessor	SuperStorage	WIO
<p><i>All Flash Server Solutions, Up to 24 NVMe, 3TB DDR4, Titanium Level Power</i></p> <p>SYS-1029UX-LL1/LL2/LL3-S16            SYS-2029UZ-TR4+            SYS-6029UZ-TR4+            SYS-1029U-TN10RT            SYS-1029U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M            SYS-1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M            SYS-6019U-TN4RT/TN4R4T/TR4/TR4T/TRT/TRTP/TRTP2/TR25M            SYS-2029U-TN24R4T/TR4/TR4T/TRT/TRTP/TR25M            SYS-2029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M            SYS-6029U-TR4/TR4T/TRT/TRTP/TR25M            SYS-6029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M            SYS-1029UZ-TN20R25M            SYS-2029UZ-TN20R25M</p>	<p><i>Up to 8 GPU/Coprocessor Supported</i></p> <p>SYS-1029GQ-TVRT            SYS-1019GP-TT            SYS-1029GP-TR            SYS-1029GR-TRT/TXRT/TNRT            SYS-5019GP-TT            SYS-2029GP-TR            SYS-4029GP-TVRT            SYS-4029GP-TRT/TRT2            SYS-7049GP-TRT</p>	<p><i>NVMe / SAS3 / Flexible IO options / Up to 3TB DDR4 / Up to 7 PCI-E Slots</i></p> <p>SSG-5019D8-TR12P            SSG-1029P-N32R/NR32R/NMR36L            SSG-136R-N32JBF/NR32JBF            SSG-5049P-E1CR45H/E1CR45L            SSG-2029P-DN2RR32L/DN2R24L/DN2R48L            SSG-2029P-NR48L            SSG-6019P-ACR12L            SSG-2029P-E1CR48H/E1CR48L            SSG-6029P-E1CR24H/E1CR24L            SSG-6049P-E1CR45H/E1CR45L/E1CR60H/E1CR60L            SSG-2029P-ACR24H/ACR24L/E1CR24H/E1CR24L            SSG-6029P-E1CR12T/E1CR12H/E1CR12L/E1CR16T            SSG-6039P-E1CR16H/E1CR16L            SSG-6049P-E1CR24H/E1CR24L/E1CR36H/E1CR36L</p>	<p><i>Resource-Optimized / Feature Rich / Cost-Effective / UP WIO</i></p> <p>SYS-6019P-WT/WTR/WT8            SYS-6029P-WTR/WTRT            SYS-1029P-WT/WTR/WTRT            SYS-1019P-WTR            SYS-5029P-WTR            SYS-5019P-WT/WTR</p>



FatTwin™	8-Way/4-Way	SuperWorkstation
<p><i>12 DIMM slots; Up to 1.5TB ECC RDIMM</i></p> <p>SYS-F619P2-RT/RTN/RC0/RC1            SYS-F629P3-RTB/RTBN/RC0B/RC1B</p>	<p><i>Extremely large in-memory computing and mission critical applications</i></p> <p>SYS-2049U-TR4            SYS-7089P-TR4T</p>	<p><i>Server Grade Quality Workstations for High Performance Workloads</i></p> <p>SYS-5039A-I            SYS-5039AD-I            SYS-7039A-i            SYS-7049A-T</p>

## Supermicro Supports Intel® Xeon® Scalable Processors



Supermicro has tested and validated the Intel® Xeon® scalable processors on all our X11 server, storage, blade, and serverboard platforms. The new processor features:

- 70W to 205W TDP
- Up to 28 cores per socket
- Up to 6 ch. DDR4 per CPU
- 2666 2DPC
- UPI: 2-3 channels per CPU (9.6, 10.4 GT/s)
- PCI-E: 48 lanes per CPU
- PCH: 14 SATA3, 20 PCI-E 3.0, 4x 10GbE ports





Intel Xeon® Scalable  
Processors Supported





# X11 Ultra

Intel® Xeon® Scalable Processors Supported



- **All-Flash Support** Up to 24 NVMe hot-swap 2.5" Drives in 2U
- **A Full Range of Processors** Up to 205 watt TDP CPUs
- **Full Memory Support** 3TB in 24 DIMMs
- **High Flexibility** Variety of networking options

## 1U Ultra

### SYS-1029U: 2.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TRTP2: 2x GbE, 2 10GSFP+
- TR25M: 2x Mellanox 25GbE
- TN10RT: 2x 10Gbase-T, 10 NVMe



### SYS-1029U-TN10RT

10 NVMe | 24 DDR4 DIMMs | 2x 10GBase-T  
Titanium Level, 96% Efficiency Power Supplies



### SYS-6019U: 3.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TRTP2: 2x GbE, 2 10GSFP+
- TR25M: 2x Mellanox 25GbE
- TN4RT: 2x 10Gbase-T, 4 NVMe

### SYS-6019U-TN4RT

4 NVMe | 24 DDR4 DIMMs | 4x 10GBase-T  
Titanium Level, 96% Efficiency Power Supplies



## 2U Ultra

### SYS-2029U: 2.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TR25M: 2x Mellanox 25GbE
- TN24R4T: 4x 10Gbase-T, 24 NVMe



### SYS-2029U-TN24R4T

24 NVMe | 24 DDR4 DIMMs | 4x 10GBase-T  
Titanium Level, 96% Efficiency Power Supplies



### SYS-6029U: 3.5" Drive Bays

- TR4: 4x GbE
- TR4T: 4x 10Gbase-T
- TRT: 2x 10Gbase-T
- TRTP: 2x 10GSFP+
- TR25M: 2x Mellanox 25GbE



### SYS-6029U-TR25M

24 DDR4 DIMMs | 2x 25G  
Titanium Level, 96% Efficiency Power Supplies



## Highest Performance Ultra SuperServers



Supermicro Ultra SuperServers are designed to deliver the highest performance, flexibility, scalability and serviceability to demanding IT environments, and to power mission-critical Enterprise workloads.

With support for the latest Intel® Xeon® processor Scalable family CPUs which boast incredible benefits over previous generations. Brand new advancements in Intel Xeon architecture include Intel UltraPath Interconnect (UPI) and Cross Bar technologies which provide direct communication between two CPUs in a dual socket server to catapult performance and dramatically reduce latency.

Available in 1U and 2U form factors, Ultra SuperServers support up to: 3TB DDR4 2666MHz in 24 DIMMs; SATA3 with optional SAS3 and NVMe support for increased storage bandwidth; a variety of Ultra Riser options including built-in 1G, 10Gbase-T, 10G SFP+, 40G and 25G Ethernet options; support for add-on SAS3 HW/SW RAID controllers and additional PCI-E 3.0 slots. The range is the perfect fit for diverse workloads and applications and can be easily reconfigured for multiple Enterprise and Data Center applications in Virtualization, Big Data, Analytics and Cloud Computing.

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## 8U SuperBlade - Up to 20x 2S/10x 4S Nodes



## 4U SuperBlade - Up to 14x 2S Nodes





# X11 GPU

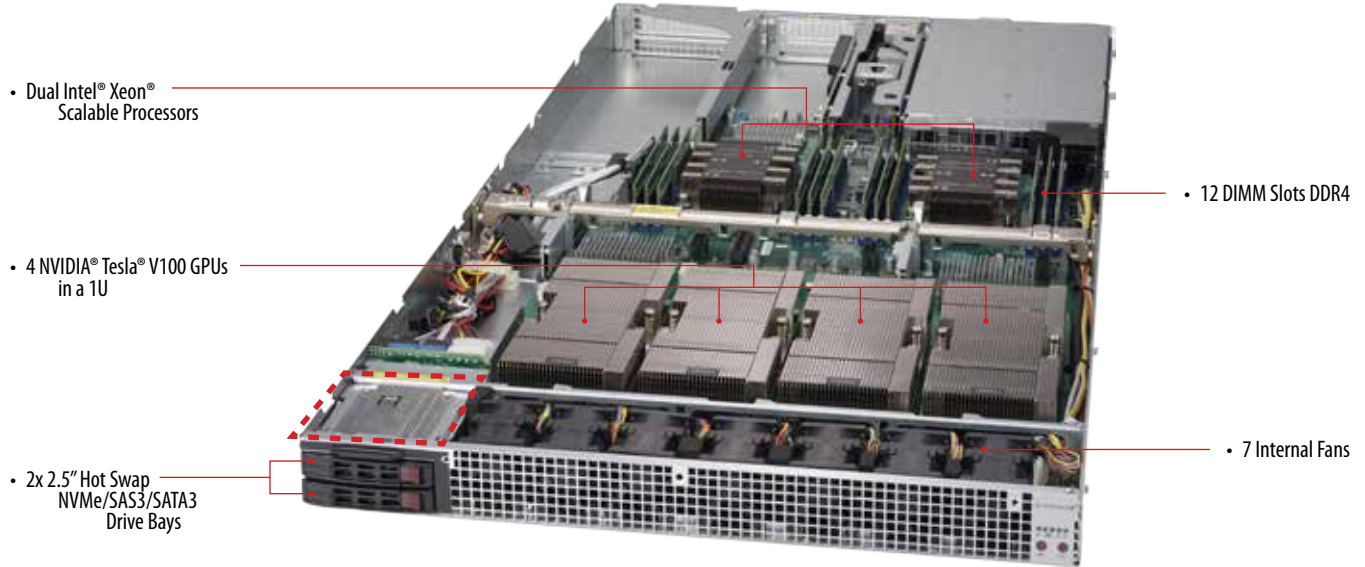
Intel® Xeon® Scalable Processors Supported



2/4/6/8/10 GPU/Coprocessors in 1U/2U/4U

Supports up to: • 56 Cores per Server • 205W TDP CPUs • 3TB DDR4-2666MHz in 24 DIMMs

• 10GBase-T • Redundant Titanium Level (96%) Power Supplies



• Dual Intel® Xeon® Scalable Processors

• 4 NVIDIA® Tesla® V100 GPUs in a 1U

• 2x 2.5" Hot Swap NVMe/SAS3/SATA3 Drive Bays

• 12 DIMM Slots DDR4

• 7 Internal Fans

**SYS-1029GQ-TVRT**  
4 GPU in 1U



• 8 NVIDIA® Tesla® V100 with NVLink™ in 4U

• 4 PCI-E 3.0 x16 Slots for GPU Direct RDMA

• Onboard 10G Ethernet

• 16x 2.5" Hot-swap SATA3 Drive Bays supporting 8 NVMe SSDs

• Redundant 4000W Titanium Level Power Supplies

• Dual Intel® Xeon® Scalable Processors

• 24 DIMM Slots DDR4

• 2 PCI-E 3.0 x16 Slots

**SYS-4029GP-TVRT**

**New! Highest Performance and Storage Density**

Supports up to: • 56 Cores per Server • 205W TDP CPUs • 3TB DDR4-2666MHz in 24 DIMMs  
• NVMe • SAS 3.0 • Quad 10G Base-T LAN • Redundant **Titanium Level** Power Supplies

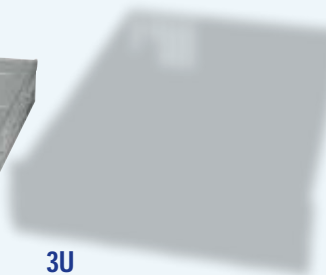


## General Purpose



**2U**

SSG-2029P-ACR24H/L  
SSG-2029P-E1CR24H/L  
SSG-6029P-E1CR12T  
SSG-6029P-E1CR12H/L  
SSG-6029P-E1CR16T



**3U**

SSG-6039P-E1CR16H/L



**4U**

SSG-5049P-E1CTR36L  
SSG-6049P-E1CR24H/L  
SSG-6049P-E1CR36H/L

## High Performance Storage Servers The Foundation of a Flexible and Efficient Enterprise



New generation X11 Supermicro SuperStorage systems feature the latest Intel® Xeon® Processor Scalable Family, delivering the performance to drive Software Defined Storage to the next level. The Supermicro SuperStorage systems offer a no compromise storage platform with flexible market entry points from 2U, 3U, and 4U form factors using 2.5" or 3.5" drive bays For SAS3/SATA3 and NVMe storage media. SuperStorage servers support up to: 3TB DDR4 2666MHz in 24 DIMM, PCI-E 3.0 slots, NVMe, flexible networking options such as Supermicro's SIOM cards and IPMI 2.0 with KVM and Redfish Support on a dedicated LAN port.

With Industry leading software compatibility Supermicro SuperStorage solutions present a number of key benefits to customers working with CPU and Capacity Intensive Storage applications, from the lowest-latency flash to massive scalability, there is an optimized model for every storage workload.

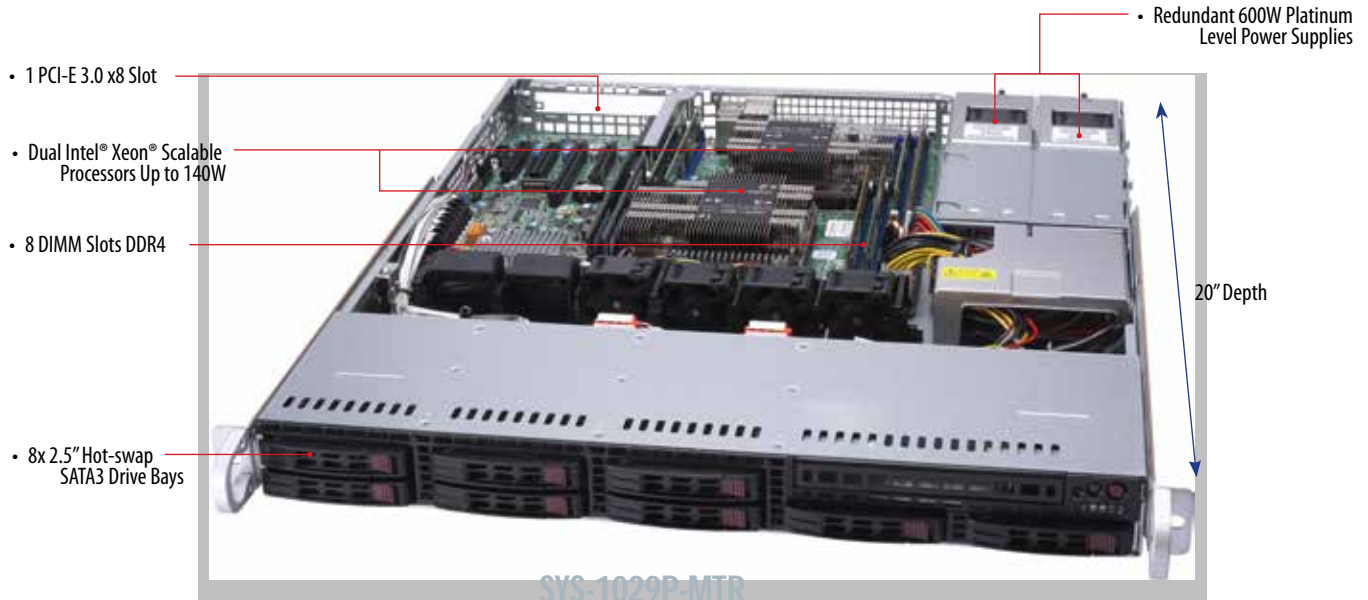


# X11 Short-Depth Servers

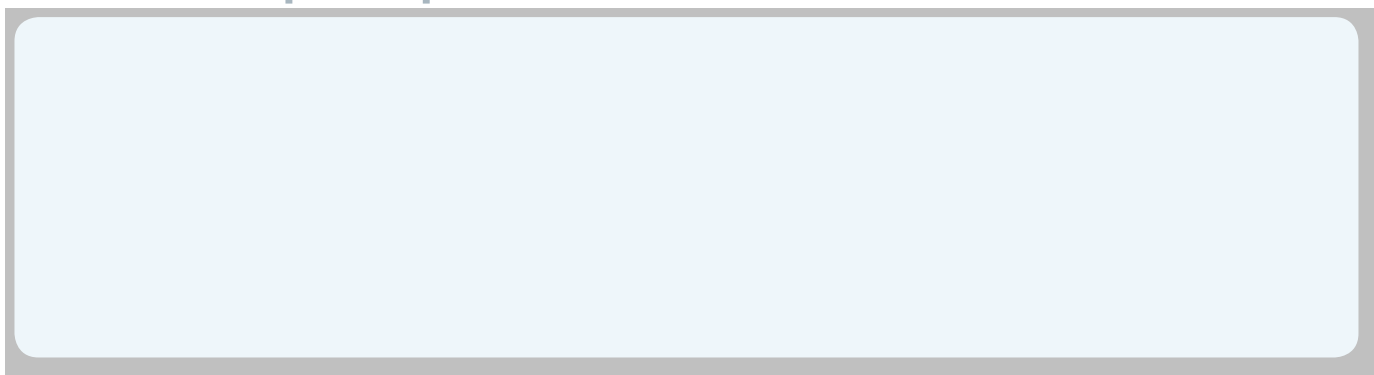
Intel® Xeon® Scalable Processors Supported



- **A Full Range of Processors** Up to 140 watt TDP CPUs
- **Power Efficient** Platinum Level Power Supplies
- **Multiple SKUs Available**



## X11 Short-Depth SuperServers



### Space Efficient Short-Depth Servers

The new generation X11 Supermicro Short Depth Data Center Optimized SuperServer® product family is designed for server deployments where space and power are at a premium. The improved thermal architecture utilizes power efficient components and highest-efficiency power supplies to allow higher operating temperatures enable the short-depth product line to perfectly align with complex requirements and complement energy efficiency data center design in order to achieve lower Total Cost of Ownership (TCO).

Expert Supermicro server design, high quality components and support for the latest Intel® Xeon® Scalable Processors ensure the highest performing and most energy optimized SuperServers for your data center deployments. Each server supports up to: 1TB ECC DDR4-2666MHz memory in 8 DIMM slots, 1 standard AOC, 8 SATA 3.0 (6Gbps) drive bays with Intel® C612 chipset controller and up to 2x 1GbE.





Supermicro® provides full integration, fulfillment and support services for customers in the Americas, Asia-Pacific (APAC), Europe, Middle East and Africa (EMEA) regions. Logistics and support for each region is processed through advanced operations centers in San Jose, CA (HQ), Taiwan (TW) and the Netherlands (NL). Products listed below are available in all of our branches across the globe.

Supermicro's global operations centers offer customers TTM advantages with streamlined processing, accelerated delivery as well as cost savings with reduced shipping charges and dedicated support within local time zones. Consult with your local Supermicro Sales Representative to optimize fulfillment and support of your Supermicro products through our worldwide logistics and service centers.



Global SKUs are identified

- SYS-6019U-TR4/TRT/T
- SYS-6029U-TR4/TRT/T
- SYS-2029U-TR4/TRT/T
- SYS-1028U-TR(4/4T/T)
- SYS-6018U-TR(4/4T/T)
- SYS-2028U-TR(4/4T/T)
- SYS-6028U-TR(4/4T/T)
- SYS-5018D-MTF
- SYS-1029GQ-TRT
- SYS-1029GPTRT/TRT2
- SYS-7049GPTRT
- SYS-1028GR-TR
- SYS-1028R-TDV
- SYS-1028R-WTR(T)
- SYS-2029BI-HNCOR/HNI
- SYS-2028GR-TR
- SYS-2029TPHTR
- SYS-6029TPHTR
- SYS-2028TPDNCR
- SYS-2028TPDNCTR
- SYS-2028TPDNCFR/SYS-2
- SYS-2028TPHC1R/HC1T
- SYS-2028TPHTR/HTTR/H
- SYS-2028TR-H72R/H72
- SYS-6018R-MT(R)
- SYS-6018R-TDV
- SYS-6018R-WTR(T)
- SYS-6028R-TR
- SYS-6028R-WTR(T)
- SYS-6028TPHC1R/HC1T
- SYS-6028TPHTR/HTTR/H
- SYS-6028TR-D72R/DTR
- SYS-6028TR-HTR/HTFR
- SYS-7038A-I
- SYS-7048A-T
- SYS-5018R-M
- SYS-5018R-MR
- SYS-5018R-WR
- SYS-6019PMT
- SYS-1029PMTR
- SYS-1029PWTR
- SYS-6019U-TR4/TRT/T
- SYS-6019U-TR4+TR4+T
- SYS-6019PWTR
- SYS-5019PWTR
- SYS-5019PM
- SYS-6029PTR
- SYS-7049PTR
- SYS-5019S-L
- SYS-5019S-M
- SYS-5019S-MR
- SYS-5019S-WR
- SYS-5015A-EHE D625
- SYS-5017C-MTF
- SYS-1027GR-TRF
- SYS-1027R-WRF
- SYS-6017R-NTF
- SYS-6017R-TDF
- SYS-6017R-WRF
- SSG-6049PE1CR45H/E1
- SSG-6049PE1CR60H/E1
- SSG-6029PE1CR12H/E1
- SSG-6049PE1CR36H/E
- SSG-6027R-E1R12NSSG
- SYS-6027TR-HTRF
- SYS-2027TR-H71RF
- SYS-2027TR-HTRF
- SYS-2027GR-TRF
- SYS-6027R-TRF
- SYS-7039A-I

**X115 Generation Systems - Intel® Xeon® Scalable Processors Supported**

Ultra 1029UX -LL3/LL1/LL2-S16, 1029UX -TN10RT, 1029U -TR4/TR4T/TRT/TRTP/TRTP2/TR25M, 1029U -E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M ..... 18-19

**X10 Generation Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support**

Ultra 1028U -TN10RT+ ..... 29

## Storage

<b>X11 Generation Systems - Intel® Xeon® Scalable Processors Supported</b>	
5019D8-TR12P, 1029P-NMR36L, 1029P-N32R, 1029P-NR32R, 6019P-ACR12L	43-44
136R-N32JBF, 136R-NR32JBF	45
5029P-E1CTR12L, 2029P-NR48L, 2029P-E1CR48H/E1CR48L	46
6029P-E1CR24H/E1CR24L, 2029P-ACR24H/ACR24L	47
2029P-E1CR24H/E1CR24L, <b>6029P-E1CR12T</b>	48
<b>6029P-E1CR12H/E1CR12L</b> , 6029P-E1CR16T	49
2029P-DN2RR32L, 2029P-DN2R24L	50
2029P-DN2R48L, 6039P-E1CR16H/E1CR16L	51
6049P-E1CR24H/E1CR24L, <b>6049P-E1CR36H/E1CR36L</b>	52
<b>6049P-E1CR60H/E1CR60L</b> , <b>6049P-E1CR45H/E1CR45L</b>	53
5049P-E1CR45H/E1CR45L, 5049P-E1CTR36L	54
<b>Cold Storage SuperServer, Intel® Atom® processor C2750</b>	
5018A-A(R/S)12L	55
<b>X10 Generation Systems - Intel® Xeon® Processor D product family support</b>	
5018D2-AR12L, 5018D4-AR12L, 5018D8-AR12L	55-56
<b>X10 Generation Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support</b>	
2028R-DE2CR24L, 2028R-DN2R48L, 2028R-DN2R24L	57
2028R-NR48N, 2028R-E1CR48N/E1CR48L	58
6028R-E1CR24N, 6028R-E1CR24L	59
6028R-E1CR12T, 6028R-E1CR12N	60
6028R-E1CR12H/E1CR12L, 2028R-ACR24H	61
2028R-ACR24L, 6028R-E1CR16T	62
2028R-E1CR24N, 2028R-E1CR24H, 2028R-E1CR24L	63
5028R-E1CR12L, 6038R-E1CR16N, 6038R-E1CR16H/E1CR16L	64
6038R-DE2CR16L, 6048R-E1CR72L, 6048R-E1CR45H/L	65
6048R-E1CR60N/E1CR60L, 6048R-E1CR90L, 6048R-E1CR24N	66
6048R-E1CR24H/E1CR24L, 6048R-E1CR36N	67
6048R-E1CR36L, 6048R-E1CR36H	68
5048R-E1CR36L, 6048R-DE2CR24L	69
<b>SBB JBOD</b>	
927R-E2CJB, 927R-E2CJB, 947R-E2CJB	70
<b>JBOD Storage Solutions</b>	
946ED-R2KJBOD, 946LE1C-R1K66JBOD, 946SE1C-R1K66JBOD, 946SE2C-R1K66JBOD, 847DE1C-R2K04JBOD, 847DE2C-R2K04JBOD, 847E1C-R1K28JBOD, 847E2C-R1K28JBOD, 846BE1C-R1K03JBOD, 846BE2C-R1K03JBOD, 417E1C-R1K23JBOD, 417E2C-R1K23JBOD, 836BE1C-R1K03JBOD, 836BE2C-R1K03JBOD, 826SE1C-R1K02JBOD, 826BE1C-R741JBOD, 826BE2C-R741JBOD, 216BE1C-R741JBOD, 216BE2C-R741JBOD	71-74

## GPU

<b>X11 Generation: Systems - Intel® Xeon® Scalable Processors Supported</b>	
1029GQ-TVRT, 1029GQ-TRT/TXRT/TNRT	76
1029GP-TR, 1019GP-TT, 5019GP-TT	77
2029GP-TR, 4029GP-TVRT	78
<b>4029GP-TRT/TRT2, 7049GP-TRT</b>	79
<b>X10 Generation: Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support</b>	
1028GQ-TVRT, <b>1028GQ-TXR/TXRT</b> , 1028GQ-TR/TRT	80
1028GR-TR/TRT, 2028GR-TR/TRT, 2028GR-TRH/TRHT, 5028TK-HTR	81
5038K-I, <b>4028GR-TRT2/TR2</b>	82
<b>4028GR-TXRT/TXR</b> , 4028GR-TR/TRT, <b>7048GR-TR</b>	83

## BigTwin™ / TwinPro™ / Twin / FatTwin™

<b>BigTwin Skylake-SP - Intel® Xeon® Scalable Processors Supported</b>	
2029BZ-HNR, <b>2029BT-HNR</b>	85
2029BT-HNC1R, <b>2029BT-HNCOR</b> , 6029BT-HNCOR	86
2029BT-HNTR, 2029BT-HTR	87
2029BT-DNCOR/DNR, 6029BT-DNCOR	88
<b>X11 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support</b>	
1029TP-DCOR, 1029TP-DC1R, 1029TP-HTR/HC1R/HCOR, 6029TP-HTR/HC1R/HCOR	89-90
<b>X10 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support</b>	
<b>BigTwin X10 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4 product families support</b>	
2028BT-HTR+, 2028BT-HNR+, 2028BT-HNC1R+/HNCOR+, 6028BT-HNCOR+	91
2028BT-DNR+, 2028BT-DNCOR+, 6028BT-DNCOR+	92
<b>1U TwinPro X10 Generation TwinPro™ Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support</b>	
1028TP-DCOR/DC1R, 1028TP-DCOTR/DC1TR, 1028TP-DCOFR/DC1FR, 1028TP-DTR, 1028TP-DTTR, 1028TP-DTFR	93-94
<b>2U TwinPro2™ with SIOM support</b>	
2028TP-HTR-SIOM, 2028TP-HC1R-SIOM, 2028TP-HCOR-SIOM, 6028TP-HTR-SIOM, 6028TP-HC1R-SIOM, 6028TP-HCOR-SIOM	95-96

## BigTwin™ / TwinPro™ / Twin / FatTwin™ continued...

<b>2U TwinPro<sup>2</sup></b> - 4 hot-swap nodes in 2U w/ 2.5 or 3.5 HDDs, New!	
2028TP-HC1R/HC1TR/HC1FR, 2028TP-HCOR/HCO1R/HCOFR, 2028TP-HTR/HTTR/HTFR	97
6028TP-HC1R/HC1TR/HC1FR, 6028TP-HCOR/HCO1R/HCOFR, 6028TP-HTR/HTTR/HTFR	98
<b>2U TwinPro</b> - 2 hot-swap nodes in 2U w/ up to 4 NVMe per Node	
2028TP-DNCR/DNCTR/DNCFR, 6028TP-DNCR/DNCTR/DNCFR	99
<b>2U TwinPro</b> - 2 hot-swap nodes in 2U w/ 2.5 HDDs	
2028TP-DECR/DEC1R/DEC1FR, 2028TP-DC1R/DC1TR/DC1FR, 2028TP-DCOR/DCO1R/DCOFR, 2028TP-DTR/DTTR/DTFR	100
<b>2U Twin<sup>2</sup></b> - Cost-Optimized, 4 hot-swap nodes in 2U	
6028TR-DTR, 6028TR-D72R, 6028TR-HTR/HTFR, 2028TR-H72R/H72FR/HTR/HTFR	101-102
<b>1U Twin</b> 6018TR-T/TF, 1028TR-T/TF	103
<b>X11 Generation FatTwin Systems - Intel® Xeon® Scalable Processors Supported</b>	
F619P2-RT/RTN/RCO/RC1, F629P3-RTB/RTBN/RCOB/RC1B	104
<b>X10 Generation FatTwin Systems - Intel® Xeon® Processor E5-2600 v4/v3 product families support</b>	
8-Node Front I/O: F618R2-FT/FCO, F618R3-FTL, F618R3-FT	105
4-Node Front I/O: F628R3-FT/FCO, F628R2-FCO	106
4-Node 16 DIMMs, Front I/O: F628R2-FT+/FCO+/FTPT+/FCOPT+, F628R3-FCO+/FCOPT+, F628R3-FT+/FTPT+	107
8-Node Front I/O: F618R2-FT+/FTPT+, F618R3-FT+/FTPT+	108
Hadoop & 2-Node GPU: F648G2-FT+/FCO+/FTPT+/FCOPT+, F618H6-FT+/FTPT+	109
8-Node Rear I/O: F618R2-RTN+/RTPTN+, F618R2-RT+/RTPT+, F618R2-RCO+/RCOPT+, F618R2-RC1+/RC1PT+, F618R2-R72+/R72PT+	110-111
4-Node Rear I/O: F628R3-RTB+/RTBPT+/RTBPTN+/RTBN+, F628R3-RCOB+/RC1B+/RCOBPT+/RC1BPT+, F628R3-R72B+/R72BPT+	112
4-Node GPU/Coprocessor: F628G2-FT+/FCO+/FTPT+/FCOPT+, F628G3-FT+/FCO+/FTPT+/FCOPT+	113

## DCO/UP/Mainstream/Multi I/O/EXDP

### X11 Generation Systems - Intel® Xeon® Scalable Processors Supported

<b>Data Center-Optimized</b>	
1029P-MT/MTR, 6019P-MT/MTR	115

#### Mainstream

5019P-MT, 5019P-MTR, 1019P-WTR, 5019P-WT/WTR 2029P-C1R/C1RT, 6029P-TR/TRT	116-118
7049P-TR/TRT, 5019P-M/MR, 5019S-L/ML, 5019S-M/MR, 5019S-MN4, 5019S-WR, 5019S-MT, 1019S-MCOT	120-124

#### Multi I/O

2029P-TXRT, 6039P-TXRT	119
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### X10 Generation Systems

#### Data Center-Optimized - Intel® Xeon® Processor E5-2600 v4/v3 processor series

6018R-MD/MDR, 6018R-TD, 6018R-TDTP/TDTPR, 6018R-TD8, 6018R-TDW, 1028R-TDW	125-126
5018R-M, 5018R-MR	128

#### Short-Depth - Intel® Xeon® Processor E5-2600 v4/v3 processor series

1028R-MCT, 1028R-MCTR, 6018R-MT/MTR	127
6028R-TDWNR	131

#### Mainstream - Intel® Xeon® Processor E3-1200 v3, Intel® Xeon® Processor E5-2600 v4/v3 processor series

5018D-MTLN4F, 5018D-MTRF/MTF, 5018D-MF, 1018D-73MTF	129
2028R-C1R4+/C1RT4+, 2028R-C1R/C1RT, 6028R-T/TT, 6028R-TR/TRT	131-133
7048R-C1RT, 7048R-C1R4+, 7048R-C1RT4+, 7048R-TR, 7048R-TRT, 7048R-C1R	135-136

#### Mainstream - Single Intel® Atom® C2000 processor series

5018A-MLTN4, 5018A-MLHN4	130
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#### Multi I/O - Intel® Xeon® Processor E5-2600 v4/v3 processor series

2028R-TXR	133
6038R-TXR, 6048R-TXR	134

#### EX DP - Dual Intel® Xeon® Processor E7-8800 v2 processor series, Intel® C602 chipset

2028UT-BC1NRT, 2028UT-BTNRT	133
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## 8/4-Way MP

### New! X11 Generation - Intel® Xeon® Scalable Processors Supported

7089P-TR4T (8-Way), 2049U-TR4	138
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#### X10 Generation

7088B-TR4FT (8-Way), 2028U-RTR4, 8048B-TR4F, 8028B-COR4FT, 8048B-TR4F, 8048B-COR4FT, 8028B-TR3F/COR3FT, 8048B-TR3F/COR3FT, 8048B-TR4FT, 4048B-TR4FT, 8048B-TRFT, 4048B-TRFT	139-144
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## MicroCloud

### New! X11 Generation MicroCloud - Intel® Atom® Processor C3000 product family support

5039MA8-H12RFT, 5039MA16-H12RFT	146
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#### X11 Generation MicroCloud - Intel® Xeon® Processor E3-1200 v6/v5 product family support

5039MS-H12TRF, 5039MS-H8TRF, 5039MD8-H8TNR, 5039MD18-H8TNR	147-148
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#### X10 Generation MicroCloud

5038MD-H8TRF, 5038MD-H24TRF, 5038MA-H24TRF, 5028ML-H24TRF, 5038ML-H12TRF/H12TRFG, 5038ML-H12TRF/H12TRFG, 5038MR-H8TRF	149-151
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## SuperWorkstation

X11 Generation Workstation - Intel® Xeon® Scalable Processors Supported 7039A-i, 7049A-T	153
X11 Generation Workstation - 6th Generation Intel® Core i7 Processor, Intel® Core i5 Processor, Intel® Core i3 Processor product families support 5039A-IL/i, 5039AD-i	154-155
X10 Generation Workstations - Intel® Xeon® Processor E5-2600 v4/v3 product families support 7038A-i, 7048A-T, 7048GR-TR, 5038A-i, 5038A-IL, 5038AD-T	155-157

## IoT/Embedded

X11 Generation Systems- Intel® Skylake Xeon® D Processor product families support 5019D-FN8TP E300-9D	159 165
X11 Generation Systems- Intel® Xeon® E3-1500 Processor product families support 5019S-TN4 1019S-MP	159 161
X11 Generation Systems- Intel® Core i7 Processor, Intel® Core i5 Processor, Intel® Core i3 Processor product families support 5019S-M2, 1019S-M2 E100-9S, E100-9S-L, E100-9S-E 5029S-TN2	161 166 169
X11 Generation Systems- Intel® Atom® Processor, Pentium® Processor, Celeron® Processor product families support E300-9A, E200-9A, E300-9A-4CN8/8CN8, E300-9A-4C/8C, E300-9C E50-9AP, E50-9AP-Wi, E102-9AP-I E100-9AP, E100-9AP-IA, E100-9APP 5019A-12TN4, 5019A-FTN4, 5019S-M2, 1019S-M2 5029A-2TN4, 5029A-TN2	162-164 167 168 160 169
X11 Generation Systems- Intel® Xeon® Processor D product family support E200-8D, E300-8D	165
X10 Generation Systems- Intel® Quark® System on Chip E100-8Q	164
X10 Generation Systems- Intel® Atom® Processor, Pentium® Processor, Celeron® Processor product families support 5018A-TN7B, E200-9AP, E200-9B, E200-8B 5018A-TN4, 5018A-FTN4, 5018A-MHN4 5028A-TN4	170 173-174 175
X10 Generation Systems- Intel® Core i7 Processor, Intel® Core i5 Processor, Intel® Core i3 Processor product families support 5028L-TN2	175
X10 Generation Systems- Intel® Xeon® Processor D-1500, Intel® Pentium® Processor D-1500, product family support 5018D-MHR7N4P, 5018D-LN4T, 5018D-FN8T, 1018D-FRN8T, 5018D-FN4T 5028D-TN4T	171-173 175
X10 Generation Systems- Intel® Core i7 Processor, Intel® Core i5 Processor, Intel® Core i3 Processor product families support 5028L-TN2	175

## Accessories

Ultra Networking Riser Cards	176-177
Network Adapters	178
SIOM Network Adapters	179
Storage Mezzanine Cards	179
HBA and SAS RAID Cards	180
Riser Cards	181-188
Trusted Platform Module	189
Mobile Racks & Drive Kits	190
Power Supplies	190-193
BBPfi	194
DC Power Solutions	194
Heatsinks	195-196
IPMI	197
Server Management Utilities	198
Front Bezel/LCD	199
SuperRackfi Total Solutions	200
Quick-Release Slide Rails	201
Cables	202-203
Switches	204-208
Product Naming Guide	209-210
Global Expansion & The Supermicro Advantage	211

# X11 Ultra

Intel® Xeon® Scalable Processors Supported



Ultra/WIO

- **All-Flash Support** Up to 24 NVMe hot-swap 2.5" Drives in 2U
- **A Full Range of Processors** Up to 205 watt TDP CPUs
- **Full Memory Support** 3TB in 24 DIMMs
- **High Flexibility** Variety of networking options

## 1U 20 NVMe

### Features:

- Virtualization, Cloud Computing, High End Enterprise Server, SDS
- Dual Socket P (LGA 3647) support: Intel® Xeon® Scalable processors
- 3 UPI up to 10.4GT/s
- 24 DIMMs; up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2666MHz
- 20 Hot-swap 2.5" 7mm drive bays; up to 20 NVMe (CPU1: 8 NVMe + 2 NVMe/SAS/SATA3 hybrid, CPU2: 10 NVMe)
- Up to 2 PCI-E 3.0 x8 (FH, FL)



SYS-1029UZ-TN20R25M

*20 directly attached hot-swap NVMe SSDs*

## Ultra Servers



SYS-2029UZ-TN20R25M



SYS-6029UZ-TR4+



SYS-1029UX-LL1/LL2/LL3-S16



SYS-1029U-TN10RT

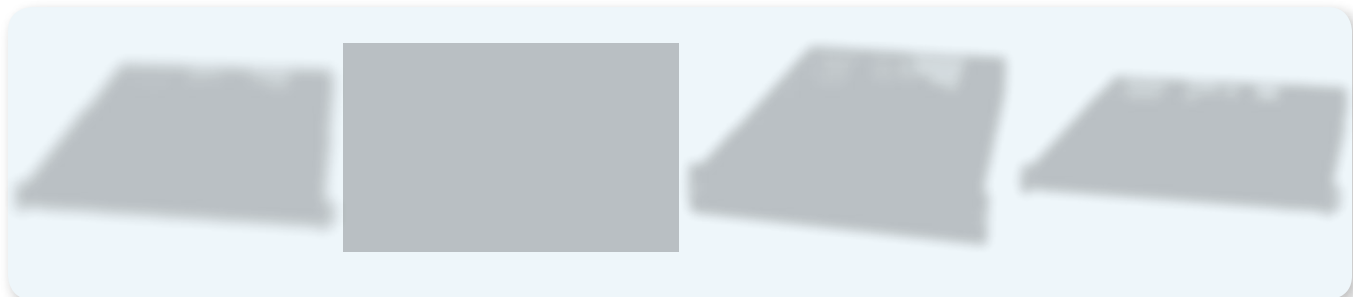
# X11 WIO

- 28 Cores per CPU
- 1.5TB DDR4 2666MHz ECC R/LR DIMM memory in 12 DIMM slots
- 205W per node
- 3 PCI-E 3.0 x16 slots
- Redundant 2200W high efficiency (96%) power supplies



SYS-1029P-WTRT

## WIO Servers







**1U X11 Ultra**  
Low Latency



**1U X11 Ultra**  
Low Latency



**1U X11 Ultra**  
10x 2.5 NVMe Drive Bays



MODEL	SYS-1029UX-LL3-S16	SYS-1029UX-LL1-S16 SYS-1029UX-LL2-S16	SYS-1029U-TN10RT
Processor Support	Dual Intel® Xeon processor SKL w/FPGA (TBA) with UPI up to 10.4GT	-LL1-S16: Intel® Xeon® Processor Scalable Family 6144(Included) with Dual UPI up to 10.4GT/s -LL2-S16: Intel® Xeon® Processor Scalable Family 6146(Included) with Dual UPI up to 10.4GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
Key Applications	Financial Analysis Business Critical Applications Enterprise Server	Financial Analysis Business Critical Applications Enterprise Server	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
Outstanding Features	Hyper-Speed Hardware Acceleration Low Latency & Jitter Optimized 8x 2.5 SAS & 2x SATA3 2.5 HDD Bay 2x 2.5 NVMe drive bay support Optimized cooling Plantium level redundant power supply	Hyper-Speed Hardware Acceleration Low Latency & Jitter Optimized 8x 2.5 SAS & 2x SATA3 2.5 HDD Bay 2x 2.5 NVMe drive bay support Optimized cooling Plantium level redundant power supply	<ul style="list-style-type: none"> <li>24 DIMM sockets</li> <li>2 PCI-E 3.0 (x16)</li> <li>Dual 10G BaseT</li> <li>1000W Titanium Level Power Supply</li> <li>2 SATA DOMs Support with Embedded Power</li> </ul>
Serverboard	SUPER <sup>®</sup> X11DPU-XLL	SUPER <sup>®</sup> X11DPU-XLL	SUPER <sup>®</sup> X11DPU
Chipset	Intel C621 Chipset	Intel C621 Chipset	Intel® C621 Chipset
System Memory (Max.)*	Default: 12x 16GB 2666MHz DDR4 (Included) (16 DIMM, up to 2TB DDR4 2666MHz)	Default: 12x 16GB 2666MHz DDR4 (Included) (16 DIMM slots, up to 2TB DDR4 2666MHz)	Up to 3TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16(Full Height, 10.5 Length) 1 PCI-E 3.0 x8 (Low Profile) 1 PCI-E 3.0 x8 (Internal SAS3 integrated 3108)	2 PCI-E 3.0 x16(1x Full Height, 10.5 Length; 1x Full Height, 10 Length) 1 PCI-E 3.0 x8 (Low Profile) 1 PCI-E 3.0 x8 (Internal SAS3 integrated 3108)	2 PCI-E 3.0 x16 (2 FH, 10.5"L)
Onboard Storage Controller	Broadcom® 3108 controller for 8 SAS3 ports	Broadcom® 3108 controller for 8 SAS3 ports	Intel® C621 SATA3 (6 Gbps) controller
Connectivity	4x Gigabit Ethernet ports via AOC-UR-I4G	4x Gigabit Ethernet ports via AOC-UR-I4G	2 10Gbase-T Ethernet via Intel® X540 Ethernet Controller 5 USB 3.0 ports (2 Rear, 2 Front, 1 Type A) 1 Serial Port
VGA/Audio	1 VGA, 1 Aspeed AST2400 BMC	1 VGA, 1 Aspeed AST2500 BMC	2 VGA ports (1 rear, 1 onboard) 1 Aspeed AST2500 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SUM; SuperDoctor® 5; Watchdog;	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5
Drive Bays	8x SAS3 Hot-swap 2.5 HDD bays (SAS3 3108) 2x NVME/SATA Hot-swap 2.5 HDD bays	8x SAS3 Hot-swap 2.5 HDD bays (SAS3 3108) 2x NVME Hot-swap 2.5 HDD bays	10 Hot-Swappable 2.5" drive bays: 6 NVMe ports (NVMe from CPU1) 4 NVMe/SAS3 hybrid ports for optional SAS3/SATA3 (NVMe from CPU 2)
Power Supply	750W High-efficiency (Platinum level) digital power supply	750W High-efficiency (Platinum level) digital power supply	Redundant 1000W Titanium Level Power Supply
Cooling System	8 heavy duty fans w/ Optimal Fan Speed Control	8 heavy duty fans w/ Optimal Fan Speed Control	8 Heavy Duty fans w/ Optimal Fan Speed Control , 1 Air Shroud
Form Factor	1U Rackmount; Enclosure: 437 x 43 x 706mm (17.2 x 1.7 x 27.8 )	1U Rackmount; Enclosure: 437 x 43 x 706mm (17.2 x 1.7 x 27.8 )	1U Chassis; Enclosure: 432 x 25 x 706mm (17.2" x 1.7" x 27.8")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



### 1U X11 Ultra 10x 2.5 Drive Bays



### 1U X11 Ultra 10x 2.5 Drive Bays, SAS3 Expander



MODEL	SYS-1029U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M	SYS-1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
Key Applications	Virtualization Cloud Computing High End Enterprise Server	Virtualization Cloud Computing High End Enterprise Server
Outstanding Features	Flexible LAN options 24 DIMM sockets 4 PCI-E Add-on cards 205W CPU support Platinum Level Power Supply 2 SATA DOM support with embedded power -TR4: 10x 2.5 SAS/SATA drive bays -TR4T/TRT/TRTP/TRTP2/TR25M: 10x 2.5 SAS3 (12Gb/s) drive bays	Flexible LAN options 10x 2.5 SAS3 (12Gb/s) drive bays 24 DIMM sockets 4 PCI-E Add-on cards 205W CPU support Platinum Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER <sup>®</sup> X11DPU	SUPER <sup>®</sup> X11DPU
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz
Expansion Slots	2 PCI-E 3.0 x 16 (FH, 10.5 L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5 L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C621 SATA controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	-TR4: 4 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port -TR4T: 4 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -TRT: 2 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -TRTP: 2 10G SFP+ Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -TRTP2: 2 10G SFP+ Ethernet; 2 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -TR25M: 2 25G SFP28 Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port	-E1CR4: 4 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -E1CR4T: 4 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -E1CRT: 2 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -E1CRTP: 2 10G SFP+ Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -E1CRTP2: 2 10G SFP+ Ethernet; 2 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port -E1CR25M: 2 25G SFP28 Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port
VGA/Audio	Aspeed AST2500 BMC -TR4: 2 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;	Aspeed AST2500 BMC
Management	-TR4: Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctorfi 5; -TR4T/TRT/TRTP/TRTP2/TR25M: Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctorfi 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctorfi 5;
Drive Bays	-TR4: 10 hot-swap 2.5 drive support -TR4T/TRT/TRTP/TRTP2/TR25M: 10 hot-swap 2.5 drive bays; 10 SAS3 ports support via AOC	10 hot-swap 2.5 drive bays; 10 SAS3 ports support via Expander and AOC
Peripheral Bays	N/A	N/A
Power Supply	750W Platinum Level Power Supply	750W Platinum Level Power Supply
Cooling System	8 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	8 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	1U Chassis; Enclosure: 437 x 43 x 707mm (17.2 x 1.7 x 27.82 )	1U Chassis; Enclosure: 437 x 43 x 707mm (17.2 x 1.7 x 27.82 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

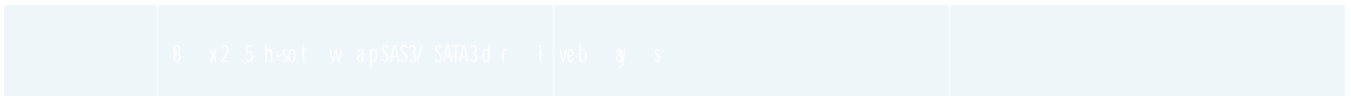
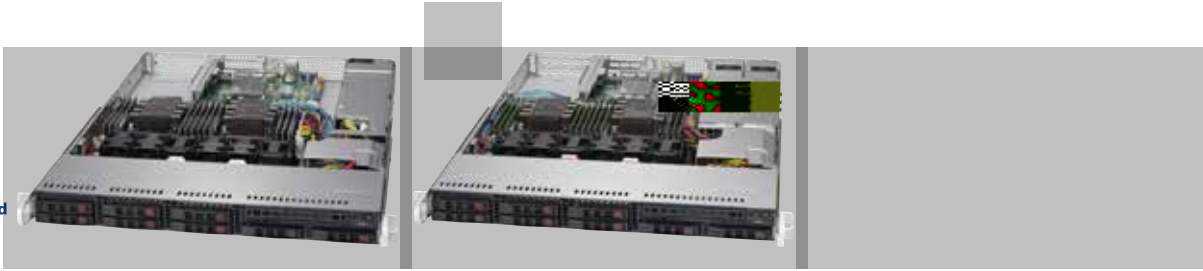




X11 WIO

X11 WIO  
1U 8x2.5 Drive Bays

X11 WIO  
1U 10x 2.5 Drive Bays, 10GbE







## X11 UP WIO

1U Flexible I/O, Flexible Array



## X11 UP WIO

Flexible I/O, Short-Depth



MODEL	SYS-5019P-WT SYS-5019P-WTR (shown)	SYS-1019S-WR
Processor Support	Intel Xeon processor scalable family (Platinum, Gold, Silver, Bronze) Intel Skylake-EP LGA3647 Socket	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core i3 processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families supported
Key Applications	Database Processing & Storage DataCenter Applications FireWall Applications	Appliance Server Embedded Applications
Outstanding Features	-WT: 1 PCI-E x8 3.0 slots 2 PCI-E x16 3.0 slots 2x 10 Gigabit Ethernet Ports -WTR: 1 PCI-E x8 3.0 slots 2 PCI-E x16 3.0 slots 2x 10 Gigabit Ethernet Ports Redundant PWS	Max. I/O solution 1 x4, and 2 x8 or 1 x16 optional expansion slots Support 1 double width GPU card (option) Quick Release Rail M.2 PCI-E 3.0 x4 support 2260
Serverboard	SUPER® X11SPW-TF	SUPER® X11SSW-F
Chipset	C622 chipset	Intel® C236 chipset
System Memory (Max.)*	6-CH memory, 6x DDR4 ECC at 2666MHz, Up to 192GB RDIMM, 384GB LRDIMM, 768GB LRDIMM 3DS	Up to 64GB Unbuffered ECC, DDR4-2133MHz in 4 DIMM slots
Expansion Slots	2 x16 PCI-E 3.0(FHFL), 1 x8 PCI-E3.0(LP)slot	1 PCI-E 3.0 x16 or 2 x8 Left Riser Slot; 1 PCI-E 3.0 x4 (in x8 slot)
Onboard Storage Controller	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C236 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	N/A	Dual LAN with Intel® Ethernet Controller I210-AT
VGA/Audio	Built-in VGA output via Aspeed BMC	1 Aspeed AST2400 BMC
Management	1x dedicated IPMI port	Intel® Node Manager; IPMI2.0; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
Drive Bays	4x 3.5 Hot-swap SATA3 bays	Internal 2x 2.5 SATA
Peripheral Bays	1x slim DVD-ROM drive bay	N/A
Power Supply	-WT: No Redundant 1 Qty. PWS-605P-1H -WTR: Yes Redundant 2 Qty. PWS-504P-1R	400W Platinum Level 1U Redundant Power Supplies with PMbus
Cooling System	Total 5x 40x56mm counter-rotation PWM fan, , Chassis default 4x counter-rotation PWM fan + additional 1x counter-rotation PWM fan	4x 40x56mm PWM fan; 2x fans for AOC cooling
Form Factor	1U 17.2 (437mm) x 1.7 (43mm) x 25.6 (650mm); Enclosure: 437 x 43 x 650mm (17.2 x 1.7 x 25.6 ) Package: 597 x 216 x 856mm (23.5 x 8.5 x 33.7 )	1U Rackmount 437 x 43 x 429mm (17.2 x 1.7 x 16.9 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



2U X11 Ultra



2U X11 Ultra



MODEL	SYS-2029UZ-TR4+	SYS-6029UZ-TR4+
Processor Support	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
Key Applications	Virtualization Hyperconverge Storage Cloud Computing High End Enterprise Server	Virtualization Hyperconverge Storage Cloud Computing High End Enterprise Server
Outstanding Features	24x 2.5 hot-swap drive bays Optional SAS3 and NVMe support 24 DIMM support 8 PCI-E Add-on cards 1600W Titanium Level Power Supply Quad Gigabit Ethernet LAN	12x 3.5 hot-swap drive bays Optional SAS3 and NVMe support 24 DIMM support 8 PCI-E Add-on cards 1600W Titanium Level Power Supply Quad Gigabit Ethernet LAN
Serverboard	SUPER <sup>®</sup> X11DPU-Z+	SUPER <sup>®</sup> X11DPU-Z+
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 (FH, 10.5 L); 5 PCI-E 3.0 x8 (FH, 10.5 L); 1 PCI-E 3.0 x8 (LP); 1 PCI-E 3.0 x8 (internal LP)	1 PCI-E 3.0 x16 (FH, 10.5 L); 5 PCI-E 3.0 x8 (FH, 10.5 L); 1 PCI-E 3.0 x8 (LP); 1 PCI-E 3.0 x8 (internal LP)
Onboard Storage Controller	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	4 GbE ports; Intel® i350	4 GbE Ports; Intel® i350
VGA/Audio	Aspeed AST2500	Aspeed AST2500
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	24 Hot-swap 2.5 Drive Bays; 14 SATA3 ports by default; Optional drive support: 20 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5 Drive Bays	12 Hot-swap 3.5 Drive Bays; 12 SATA3 ports by default; Optional drive support: 8 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5 Drive Bays
Peripheral Bays	N/A	N/A
Power Supply	1600W Redundant Power Supplies with PMBus	1600W Redundant Power Supplies with PMBus
Cooling System	4 8cm heavy duty PWM fans	4 8cm heavy duty PWM fans
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2 x 3.5 x 27.76 )	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

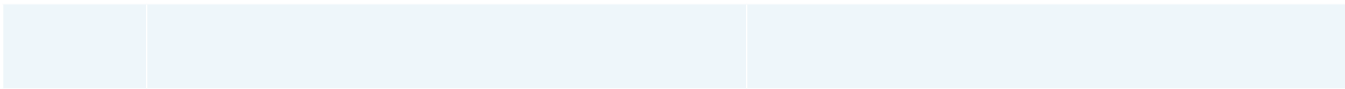
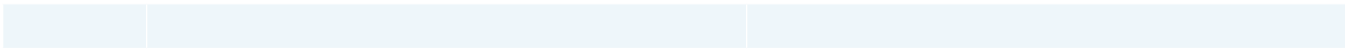
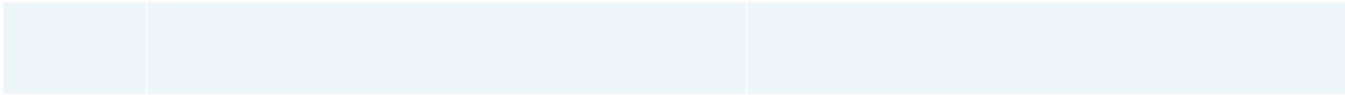
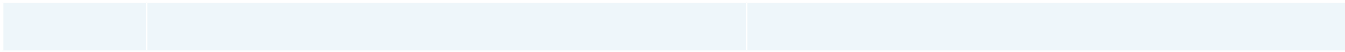


### 2U X11 Ultra

24x 2.5 SAS/SATA3 Drive Bays

### 2U X11 Ultra

24x 2.5 Drive Bays, SAS3 Expander





X11 WIO

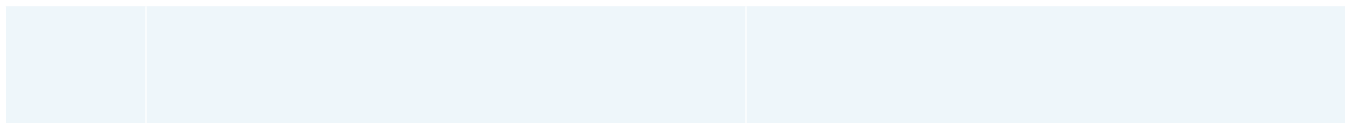
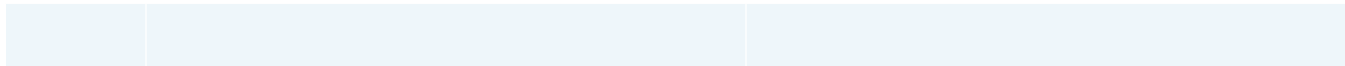
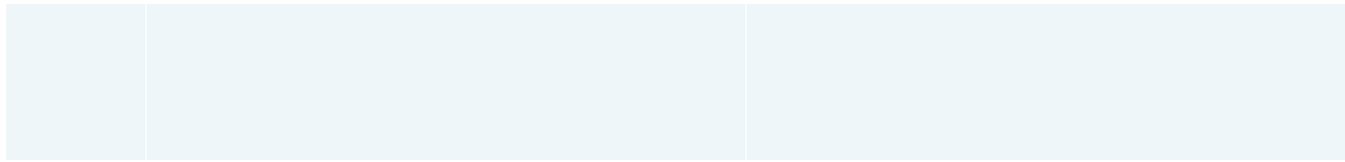
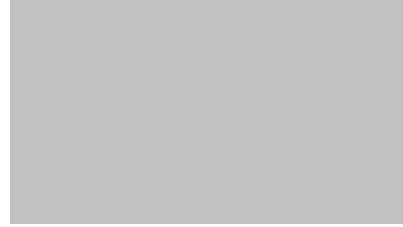
X11 WIO



MODEL	SYS-6029P-WTR	SYS-6029P-WTRT
Processor Support	Intelfi Xeonfi processor E5-2600 V5 with UPI up to 10.4 GT/s	Intelfi Xeonfi Scalable Processors with UPI up to 10.4 GT/s
Key Applications	Web Server FireWall Applications Corporate- WINS, DNS, Print, Login Gateway, provisioning servers Compact Network Appliance Cloud Computing	Web Server FireWall Applications Corporate- WINS, DNS, Print, Login Gateway, provisioning servers Compact Network Appliance Cloud Computing
Outstanding Features	Flexible I/O options 8x 3.5" SAS3/SATA3 drive bays	

**X11 UP W10**  
2U 4 Full-Height PCI-E Slots

**1U Ultra**  
10 NVMe, 2.5 Drives







**1U Ultra**  
2 NVMe, 3TB DDR4

**1U Ultra**  
3TB DDR4



MODEL	SYS-1028U-TNR4+ SYS-1028U-TNRT+ SYS-1028U-TNRTP+	SYS-1028U-TR4+ SYS-1028U-TRT+
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Virtualization Cloud Computing High End Enterprise Server	Virtualization Cloud Computing High End Enterprise Server
Outstanding Features	Flexible LAN options Redundant power supplies 24 DIMM slots 4 PCI-E Add-on cards 2 NVMe/SATA3 hybrid ports Optional 8 SAS3 ports via AOC 160W CPU support Platinum Level Power Supply 2 SATADOM	Flexible LAN options 24 DIMM slots 4 PCI-E Add-on cards SAS3 support 160W CPU support Platinum Level Power Supply 2 SATA DOM support with embedded power
Serverboard	SUPER● X10DRU-i+	SUPER● X10DRU-i+
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	2 PCI-E 3.0 x 16 (FH, 10.5 L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5 L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port -TNR4T+: 4 10Gbase-T ports; -TNRT+: 2 10Gbase-T Ethernet -TNRTP+: 2 10G SFP+ ports	5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port -TR4+: 4 GbE ports; -TRT+: 2 10Gbase-T ports;
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	10 hot-swap 2.5 drive bays support: Default 8 SATA3 ports and 2 NVMe/SATA3 hybrid ports	10 hot-swap 2.5 drive bays support Default 10 SATA3 ports, Optional 8 SAS3 ports
Peripheral Bays	N/A	N/A
Power Supply	750W Platinum Level Power Supply	750W Platinum Level Power Supply
Cooling System	5 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	4 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
Form Factor	1U Rackmount 437 x 43 x 706.8mm (17.2 x 1.7 x 27.82 )	1U Rackmount 437 x 43 x 706.8mm (17.2 x 1.7 x 27.82 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details











**2U Ultra**  
3TB DDR4, Titanium Level Power



**2U Ultra**  
3TB DDR4, Titanium Level Power



Processor Support		t	
Outstanding			
Serverboard	SUPERM10		
Chipset	Intel		
System Memory	Up to 3TB ECC DDR4-24 DIMM or RDIMM DDR4-24 00MHz in 24 DIMM slots	Up to 3TB ECC DDR4-24 DIMM or RDIMM DDR4-24 00MHz in 24 DIMM slots	
Controller	1 PCI-E 3.0 x 16 (F 0.6, 1) -TR4+/TRT+/TRTP+: 7 PCI-E 3.0 x 8 (5 F 0.6, 1, 1 LP, 1 Internal LP) -TR4T+: 6 PCI-E 3.0 x 8 (5 F 0.6, 1, 1 LP, 1 Internal LP)	1 PCI-E 3.0 x 16 (F 0.6, 1) -TR4+/TRT+/TRTP+: 7 PCI-E 3.0 x 8 (5 F 0.6, 1, 1 LP, 1 Internal LP) -TR4T+: 6 PCI-E 3.0 x 8 (5 F 0.6, 1, 1 LP, 1 Internal LP)	
Onboard Storage	Intel		
Connectivity	5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port; -TR4+/TRT+/TRTP+: 4 Gb Ethernet ports; -TR4T+: 2 1 Gbase-T ports; -TR4T+: 4 1 Gbase-T ports; -TRTP+: 2 1 G SF P+ ports	5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port; -TR4+/TRT+/TRTP+: 4 Gb Ethernet ports; -TR4T+: 2 1 Gbase-T ports; -TR4T+: 4 1 Gbase-T ports; -TRTP+: 2 1 G SF P+ ports	
VGA/Audio	AST24 00 VGA	AST24 00 VGA	
Management	24 hot-swap 2.5 drive bays support; Default SATA 3 ports; Optional 24 SAS ports via AOCs	12 hot-swap 3.5 drive bays support; Default SATA 3 ports; Optional 12 SAS ports via AOCs	
Form Factor			



We Power the Cloud

**W10**  
NVMe Optimized



**W10**  
Short-Depth 16.9  
Compact



MODEL	SYS-1028R-WTNR SYS-1028R-WTNR-T	SYS-1028R-WMR SYS-1028R-WMRT
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; up to 145W TDP
Key Applications	Enterprise Performance Native NVMe Cost-effective Storage optimized 8 SATA3 ports and 2 NVMe/SATA3 hybrid ports High-density, Enterprise Performance, Cost-effective 16 DIMM slots	File/Print Server Application and data serving Clone of Server Clustering Business Critical Applications
Outstanding Features	700W/750W Platinum Level high-efficiency power supply IPMI 2.0 + KVM with Dedicated LAN 16 DIMM slots Up to 2 add-on cards	Supports up to 2x AOCs Short-Depth 16.9
Serverboard	-WTNR: SUPER● X10DRW-N -WTNR-T: SUPER● X10DRW-T	-WMR: SUPER● X10DRW-E -WMRT: SUPER● X10DRW-ET
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 full-height, half-length slots	2 PCI-E 3.0 x16 full-height, half-length slots
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-WTNR: Dual LAN with Intel® Ethernet Controller i350-AM2 -WTNR-T: Dual LAN with Intel® X540 10GBase-T Ethernet Controller;	-WMR: 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port -WMRT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller;
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 SATA3 ports and 2 NVMe/SATA3 hybrid ports	2x 2.5 fixed with bracket
Peripheral Bays	N/A	N/A
Power Supply	700W/750W redundant Platinum Level (PWS-706) or Gold Level (PWS-704) high-efficiency power supplies	400W Redundant Gold Level power supplies
Cooling System	5x 4cm heavy duty counter-rotating fans with optimal fan speed control	4x 40x56mm PWM fan; ; 2x fans for AOC cooling
Form Factor	1U Rackmount 437 x 43 x 630mm (17.2 x 1.7 x 24.8 )	1U Rackmount 437 x 43 x 429mm (17.2 x 1.7 x 16.9 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**WIO 1U**  
12Gbps SAS 3.0 HW RAID  
Optional NVMe



**WIO 1U**  
10 SATA3 2.5



MODEL	SYS-1028R-WC1R(T)	SYS-1028R-WTR(T)
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Downloads e-Business Email Server Enterprise Server Web Server	Hosting Cloud & Virtualization VDI Unified Communications
Outstanding Features	2 SATA DOM support with built-in power SAS 3.0 (12Gbps) support 16 DIMM slots Up to 2 add-on cards Redundant 700W/750W Platinum Level high efficiency power supplies Optional two 2.5 NVMe drives support	2 SATA DOM support with built-in power 16 DIMM slots Up to 2 add-on cards Redundant 700W/750W Platinum Level high efficiency power supplies 10x SATA3 ports
Serverboard	-WC1R: SUPER® X10DRW-i -WC1RT: SUPER® X10DRW-iT	-WTR: SUPER® X10DRW-i -WTRT: SUPER® X10DRW-iT
Chipset	Intel® C612 Chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (FHHL)	2 PCI-E 3.0 x16 (FHHL) 1 PCI-E 3.0 x8 Mezzanine for HBA cards
Onboard Storage Controller	SAS3 Broadcom® 3108 (12Gbps) HW RAID controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60; 2GB DDR3 Cache; C612 controller for 2 SATA3 (6Gbps) ports; RAID 0,1	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-WC1R: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -WC1RT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-WTR: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -WTRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 2.5 hot-swap SAS/SATA + 2x 2.5 SATA/NVMe drive bays	10x 2.5 hot-swap SAS/SATA drive bays
Peripheral Bays	N/A	N/A
Power Supply	Redundant 700W/750W Platinum Level high-efficiency power supplies with I²C & PMBus	Redundant 700W/750W Platinum Level high-efficiency power supplies with I²C & PMBus
Cooling System	5x 4cm heavy duty counter-rotating fans with air shroud with optimal fan speed control	5x 4cm heavy duty counter-rotating fans with air shroud with optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 597mm (17.2 x 1.7 x 23.5 )	1U Rackmount 437 x 43 x 597mm (17.2 x 1.7 x 23.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## WIO 1U



## UP WIO Flexible I/O, Storage Array



MODEL	SYS-6018R-WTR(T)	SYS-5018R-WR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Hosting Cloud & Virtualization VDI Unified Communications	Data Center Data Deduplication & Replication Database Processing & Storage DataCenter Applications Engineering Design FireWall Applications
Outstanding Features	2 SATA DOM support with built-in power 2x 10GBase-T Ports Redundant 700W/750W <b>Platinum Level</b> high efficiency power supplies 16 DIMM slots Up to 2 add-on cards	Hot-swap 4x SATA3 drive bays 2 PCI-E x16 3.0 slots 1 PCI-E x8 slot 2 Gigabit Ethernet Ports Up to 3 add-on cards
Serverboard	-WTR: SUPER® X10DRW-i -WTRT: SUPER® X10DRW-IT	SUPER® X10SRW-F
Chipset	Intel® C612 chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (FHHL) 1 PCI-E 3.0 x8 Mezzanine for HBA cards	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 LP (Total 3 add-on card slots)
Onboard Storage Controller	Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,10
Connectivity	-WTR: Dual LAN with Intel® i350 Gigabit Ethernet Controllers -WTRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	2x GbE port, 2x USB 2.0, USB 3.0, VGA, Serial
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	4x 3.5 hot-swap SAS/SATA drive bays	4x SATA3 hot-swap drive bays ( w/ RAID option)
Peripheral Bays	1 slim DVD-ROM drive (optional)	Optional slim optical device bay, optional FDD/USB bay
Power Supply	Redundant 700W/750W <b>Platinum Level</b> high-efficiency power supplies with P/C & PMBus	Redundant 500W <b>Platinum Level</b> high-efficiency power supplies
Cooling System	5x 4cm heavy duty counter-rotating fans with air shroud with optimal fan speed control	4x counter-rotating 40mm fans
Form Factor	1U Rackmount 437 x 43 x 650mm (17.2 x 1.7 x 25.6 )	1U Rackmount 437 x 43 x 597mm (17.2 x 1.7 x 23.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**UP WIO**  
Flexible I/O, Storage Array



**2U Ultra**  
Remote Workstation



MODEL	SYS-1018R-WCOR	SYS-6028UX-TR4
Processor Support	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	DataCenter Applications Security Server Appliance Video Server Virtualization Server Web Server	Remote Workstation Financial Market
Outstanding Features	Hot-swap 8x SAS3 + 2x SATA3 drive bays 2 PCI-E x16 3.0 slots 1 PCI-E x8 slot 2 Gigabit Ethernet Ports Up to 3 add-on cards	Up to 4 double width GPU cards Up to 12 hot-swap 3.5" HDD Optional SAS3 and NVMe support Flexible LAN port options
Serverboard	SUPER® X10SRW-F	SUPER® X10DRU-X
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (Total 3 add-on card slots)	3 PCI-E 3.0 x16 (FH, 10.5" length) 3 PCI-E 3.0 x8; (1x in x16 slot FH, 10.5" length, 1 low profile, 1 internal low profile)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,10; RSTe 4.0	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Optional 12 SAS3 drive support; Optional 4 NVMe drive support via 2x AOC-2UR8N4-I2XT
Connectivity	2x GbE port, 2x USB 2.0, USB 3.0, VGA, Serial	4 Gigabit Ethernet; 5 USB 3.0 ports (2 rear, 2 onboard header, 1 Type A); 1 Serial Port
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x SATA3 (SAS3 option) + 2x SATA3 hot-swap drive bays ( w/ RAID option)	12x hot-swap 3.5" drives bays
Peripheral Bays	N/A	N/A
Power Supply	Redundant 750W Platinum Level high-efficiency power supplies	Redundant 1000W Titanium Level Digital high-efficiency power supply
Cooling System	6x counter-rotating 40mm fans	4 heavy duty fans w/ Optimal Fan Speed Control; 1 Air Shroud
Form Factor	1U Rackmount 437 x 43 x 597mm (17.2 x 1.7 x 23.5 )	2U Rackmount 437 x 89 x 723.3mm (17.2 x 3.5 x 28.46 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**2U WIO**  
16 DIMMs, 6 PCI-E 3.0 x8



**UP WIO**  
Multiple AOC  
Expansion Option



MODEL	SYS-6028R-WTR SYS-6028R-WTRT	SYS-5028R-WR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Cloud and Virtualization needs Database Processing & Storage Hosting & Application delivery HPC cluster computer nodes Simulation & Automation	Database Processing & Storage Connectivity/Storage Computer Nodes Data Warehouse
Outstanding Features	2 SATA DOM support with built-in power Redundant 740W <b>Platinum Level</b> high-efficiency power supplies Supports 16 DIMM DDR4-2133MHz Up to 6 add-on cards	8x 3.5 Hot-swap SATA3 bays w/ RAID Redundant 500W <b>Platinum Level</b> power 5 PCI-E 3.0 x8 slots
Serverboard	-WTR: SUPER® X10DRW-i -WTRT: SUPER® X10DRW-IT	SUPER® X10SRW-F
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	6 PCI-E 3.0 x8 (2 FHFL, 2 FHHL, 2LP)	5 PCI-E 3.0 x8 slots
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C612 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-WTR: Dual LAN with Intel® i350 Gigabit Ethernet Controllers; -WTRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	2x GbE port, 1x dedicated IPMI port
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 3.5 hot-swap SAS/SATA drive bays	8x 3.5 Hot-swap SATA3 bays w/ RAID; optional fixed drive bays
Peripheral Bays	1 slim DVD-ROM drive (optional)	1x slim DVD-ROM drive bay 2x USB 2.0 ports (option)
Power Supply	Redundant 740W <b>Platinum Level</b> high-efficiency power supplies with PC & PMBus	Redundant 500W <b>Platinum Level</b> power supplies optional BBP module support
Cooling System	3x 8cm (7000 RPM) hot-swap PWM cooling fan	3x middle cooling fans
Form Factor	2U Rackmount 437 x 89 x 647mm (17.2 x 3.5 x 25.5 )	2U Rackmount 437 x 89 x 647mm (17.2 x 3.5 x 25.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

# X11 SuperStorage

Intel® Xeon® Scalable Processors Supported



**New!** Highest Performance and Storage Density

Supports up to: • 56 Cores per Server • 205W TDP CPUs • 3TB DDR4-2666MHz in 24 DIMMs

• NVMe • SAS 3.0 • Quad 10G Base-T LAN • Redundant Titanium Level Power Supplies

## Top-Loading



SSG-5049P-E1CR45H/L  
SSG-6049P-E1CR45H/L  
SSG-6049P-E1CR60H/L  
SSG-6048R-E1CR90L

## Simply Double



SSG-2029P-E1CR48H/L  
SSG-2029P-NR48L  
SSG-6029P-E1CR24H/L

## SBB



SSG-2029P-DN2R24L  
SSG-2029P-DN2R48L

## General Purpose



**1U**

SSG-6019P-ACR12L  
SSG-5019D8-TR12P



**2U**

SSG-2029P-ACR24H/L  
SSG-2029P-E1CR24H/L  
SSG-6029P-E1CR12T  
SSG-6029P-E1CR12H/L  
SSG-6029P-E1CR16T



**3U**

SSG-6039P-E1CR16H/L



**4U**

SSG-5049P-E1CTR36L  
SSG-6049P-E1CR24H/L  
SSG-6049P-E1CR36H/L

## High Performance Storage Servers The Foundation of a Flexible and Efficient Enterprise



New generation X11 Supermicro SuperStorage systems feature the latest Intel® Xeon® Processor Scalable Family, delivering the performance to drive Software Defined Storage to the next level. The Supermicro SuperStorage systems offer a no compromise storage platform with flexible market entry points from 2U, 3U, and 4U form factors using 2.5" or 3.5" drive bays For SAS3/SATA3 and NVMe storage media. SuperStorage servers support up to: 3TB DDR4 2666MHz in 24 DIMM, PCI-E 3.0 slots, NVMe, flexible networking options such as Supermicro's SIOM cards and IPMI 2.0 with KVM and Redfish Support on a dedicated LAN port.

With Industry leading software compatibility Supermicro SuperStorage solutions present a number of key benefits to customers working with CPU and Capacity Intensive Storage applications, from the lowest-latency flash to massive scalability, there is an optimized model for every storage workload.

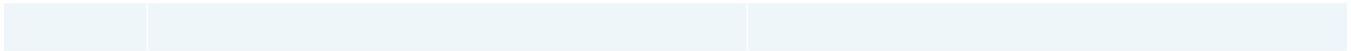
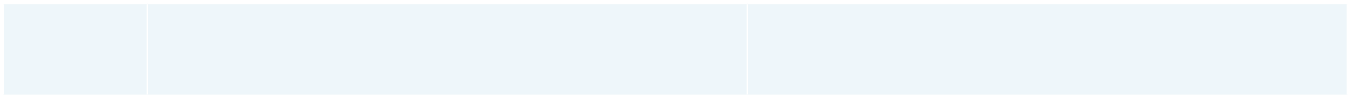
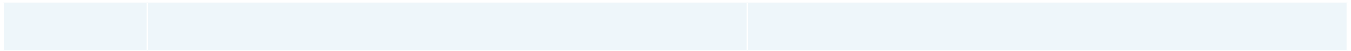
# Storage

# 12-bay SoC Storage

CDN, Warm Storage, Web/Database Server













## Storage

## X11 SuperStorage 2U



MODEL	SSG-6029P-E1CR24H SSG-6029P-E1CR24L	SSG-2029P-ACR24H SSG-2029P-ACR24L
Processor Support	Intel® Xeon® Processor Scalable Family with UPI up to 10.4 GT/s	Intel® Xeon® Processor Scalable Family Skylake with UPI up to 10.4 GT/s
Key Applications	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN	High Performance NAS Servers Web Cache Corporate Database HPC Database Processing & Storage Large Database
Outstanding Features	24x 3.5 Drives in 2U Form Factor Supports Dual 205W Skylake CPU 24 DIMM sockets Support SIOM Card for Multiple IO Option Redundant 1600W Titanium Level high-efficiency power supplies <ul style="list-style-type: none"> <li>-H: Broadcom® 3108 SAS3 HW RAID controller</li> <li>-L: Broadcom® 3008 IT Mode SAS controller</li> </ul>	2x Optional Onboard NVMe M.2 24x 2.5 Hot-swap SAS3 bays 205W CPU support 16 DIMM support Dual 10G BaseT 1200W Titanium Level high-efficiency power supply <ul style="list-style-type: none"> <li>-H: 3x Broadcom® 3108 HW controllers</li> <li>-L: 3x Broadcom® 3008 IT Mode Controllers</li> </ul>
Serverboard	SUPER <sup>®</sup> X11DSC+	SUPER <sup>®</sup> X11DPH-T
Chipset	Intel® C621 chipset	Intel® C624 chipset
System Memory (Max.)*	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x8 for Add-On-Module (AOM);	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8.
Storage Controller	-E1CR24H: Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50; -E1CR24L: Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50;	-ACR24H: 3x Broadcom® 3108 SAS3 add-on controller cards -ACR24L: 3x Broadcom® 3008 SAS3 add-on controller cards
Connectivity	N/A	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;	1 VGA
Management	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; KVM with dedicated LAN; NMI; SPM; SSIM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	24x 3.5 hot-swap drive bay 2x 2.5 hot-swap drive bay	24x 2.5 hot-swap SAS3/SATA3 drive bay
Peripheral Bays	N/A	2x 2.5 rear hot-swap drive bay.
Power Supply	Yes Redundant 2 Qty. PWS-1K62P-1R	1200W Titanium Level high-efficiency power supply
Cooling System	5x 8cm high-performance PWM fans;	3x 8cm hot-swap redundant PWM cooling fans.
Form Factor	2U 17.2 (437mm) x 3.5 (89mm) x 34 (863.6mm)	

\* Please check with your Supermicro sales representative and website for compatibility and configuration details







## X11 SuperStorage Super SBB

## X11 SuperStorage 3U



MODEL	SSG-2029P-DN2R48L	SSG-6039P-E1CR16H SSG-6039P-E1CR16L
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s
Key Applications	Corporate Database Lustre HPC Virtualization High Availability Storage Appliance Platform	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN
Outstanding Features	Redundant DP SBB supporting 48x U.2 Dual-Port NVMe IPMI management with dedicated LAN 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies [nid:58 NV-DIMM support Shared storage between redundant controllers Node to node heartbeat/ NTB connectivity	2x Optional Onboard NVMe M.2 16x 3.5" SAS3/SATA3 drive bays 205W CPU support 16 DIMM support Dual 10G BaseT Dual JBOD Expansion Ports 1200W Titanium Level high-efficiency power supply <ul style="list-style-type: none"> <li>-E1CR116H: Broadcom® 3108 SAS3 HW RAID controller</li> <li>-E1CR116L: Broadcom® 3008 IT Mode SAS controller</li> </ul>
Serverboard	SUPER <sup>®</sup> X11DSN-TS	SUPER <sup>®</sup> X11DPH-T
Chipset	Intel® C624 chipset	Intel® C624 chipset
System Memory (Max.)*	2TB 3DS ECC, DDR4-2666MHz in 12 DIMM slots per node	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 HHL, 1x PCI-E 3.0 x16 SIOM per node	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
Storage Controller	N/A	-E1CR116H: Broadcom® 3108 SAS3 add-on controller card -E1CR116L: Broadcom® 3008 SAS3 add-on controller card
Connectivity	Dual LAN with 10GBase-T with Intel® X557-AT2; Dual 10G private Ethernet between controller nodes Dedicated B2B connection using NTB by PLX PCI-E 3.0 x8	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC per node	1 VGA
Management	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog;	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctorfi 5, Watchdog
Drive Bays	48x U.2 hot-swap Dual-Port NVMe drive bays	16x 3.5" hot-swap SAS3/SATA3 drive bays
Peripheral Bays	N/A	2x 2.5" rear hot-swap drive bays
Power Supply	2pcs 2000W Titanium Level high-efficiency power supplies	1200W Titanium Level high-efficiency power supply
Cooling System	5x 8cm high-performance PWM fans;	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan
Form Factor	2U 17.2 (437mm) x 3.5 (89mm) x 33.3 (846mm)	3U 17.2 (437mm) x 5.2 (132mm) x 25.5 (647mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 SuperStorage 4U



## X11 SuperStorage 4U



MODEL	SSG-6049P-E1CR24H SSG-6049P-E1CR24L	SSG-6049P-E1CR36H SSG-6049P-E1CR36L
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s
Key Applications	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN
Outstanding Features	2x Optional Onboard NVMe M.2 24x 3.5 Hot-swap SAS3 bays 205W CPU support 16 DIMM support Dual 10G BaseT Dual JBOD Expansion Ports 1200W Titanium Level high-efficiency power supply <ul style="list-style-type: none"> <li>-E1CR24H: Broadcom® 3108 SAS3 HW RAID controller</li> <li>-E1CR24L: Broadcom® 3008 IT Mode SAS controller</li> </ul>	36x 3.5 Hot-swap SAS3 bays 205W CPU support 16 DIMM support Dual 10G BaseT Dual JBOD Expansion Ports 1200W Titanium Level high-efficiency power supply
Serverboard	SUPER <sup>®</sup> X11DPH-T	SUPER <sup>®</sup> X11DPH-T
Chipset	Intel® C624 chipset	Intel® C624 chipset
System Memory (Max.)*	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
Storage Controller	-E1CR24H: Broadcom® 3108 SAS3 add-on controller card -E1CR24L: Broadcom® 3008 SAS3 add-on controller card	-E1CR36H: Broadcom® 3108 SAS3 add-on controller card -E1CR36L: Broadcom® 3008 SAS3 add-on controller card
Connectivity	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
VGA/Audio	1 VGA	1 VGA
Management	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	24x 3.5 hot-swap SAS3/SATA3 drive bays	36x 3.5 hot-swap SAS3/SATA3 drive bays
Peripheral Bays	2x 2.5 rear hot-swap drive bays	2x 2.5 rear hot-swap drive bays
Power Supply	1200W Titanium Level high-efficiency power supply	1200W Titanium Level high-efficiency power supply
Cooling System	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan	7x 8cm high-performance PWM fans, air shroud
Form Factor	4U 17.2 (437mm) x 7 (178mm) x 26 (660mm)	4U 17.2 (437mm) x 7 (178mm) x 26 (660mm)

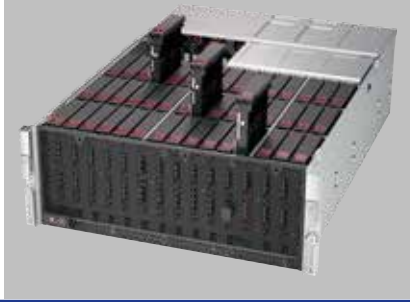
\* Please check with your Supermicro sales representative and website for compatibility and configuration details





## SuperStorage

UP, Applications storage, Archive and cold storage



## SuperStorage

Applications storage, Archive and cold storage



MODEL		





Cold Storage



Best Cost-Efficient Cold Storage



MODEL	SSG-5018A-A(R/S)12L	SSG-5018D2-AR12L
Processor Support	Intel® Atom® Processor C2750	Intel® Pentium® D 1508 Processor, SoC, 2 Core, 4 Thread 2.2 GHz (2.6 GHz Turbo), 25W
Key Applications	Storage Nodes	Cold Storage Data Warehousing, Archiving Long Tail, Medical Records, Compliance Docs Low Power Efficiency Appliance
Outstanding Features	Hardware Drive Power Control 1 PCI-E 2.0 x4 (in x8 slot) 12x 3.5" data drives in 1U Cost optimized RAID: IT Mode only SATADOM for OS drive	12x Hot-Swap 3.5" SAS2/SATA3 bays (6 Gb/s) Option 4x 2.5" internal HDD drives Up to 128GB DDR4 2133MHz RDIMM or 64GB UDIMM 2-Port 1G Base-T and 2-port 10G SFP+ Network Port M.2 2242, 2280, 22110 PCI-E 3.0 x4 with M-key IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN
Serverboard	SUPER® A1SA7-2750F	SUPER® X10SDV-2C-7TP4F
Chipset	System on Chip chipset	Intel® Pentium® D 1508 SoC Processor
System Memory (Max.)*	Up to 64GB ECC/non-ECC UDIMM, DDR3-1600MHz in 4 DIMM slots, x8 data width	Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM
Expansion Slots	1 PCI-E 2.0 x4 (LP, HL, in x8 slot)	1 PCI-E 3.0 x8 full height
Onboard Storage Controller	IT Mode	Broadcomfi 2116 (IT mode)
Connectivity	Dual LAN with SoC	2x USB 3.0, 5x USB 2.0 port, VGA
VGA/Audio	AST2400 VGA	Built-in VGA from Aspeed BMC
Management	IPMI2.0; NMI; SuperDoctor® 5; Watchdog	IPMI 2.0 w/ dedicated LAN port & KVM; 4 Pin PWM Fan Speed control; TPM option; Thermal and voltage monitoring
Drive Bays	12x 3.5" drive bay	12x Hot-Swap 3.5" SAS2/SATA3 drive bays (6 Gb/s), Option 4x 2.5" internal HDD drives
Peripheral Bays	N/A	N/A
Power Supply	400W Redundant Gold Level high-efficiency power supplies	400W Redundant Gold Level power supplies
Cooling System	6x 40x28mm PWM fan;	5x 4cm middle fan
Form Factor	1U Rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")	1U rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



High-Density  
Cold Storage

High-Density  
Warm Storage



MODEL	SSG-5018D4-AR12L	SSG-5018D8-AR12L
Processor Support	Intel® Xeon® Processor D 1518 Processor, SoC, 4 Core, 8 Thread 2.2 GHz (2.2 GHz Turbo), 35W	Intel® Xeon® Processor D 1537 Processor, SoC, 8 Core, 16 Thread 1.7 GHz (2.3 GHz Turbo), 35W
Key Applications	Cold Storage Archiving, Mail/Finance, Security Scale-Out Density, VOD Delivery Low Power Efficiency Appliance	Warm Storage CDN, Business Hosting OLTP/DB Low Power Efficiency Appliance
Outstanding Features	12x Hot-Swap 3.5" SAS2/SATA3 bays (6 Gb/s) Option 4x 2.5" internal HDD drives Up to 128GB DDR4 2133MHz RDIMM or 64GB UDIMM 2-Port 1G Base-T and 2-port 10G SFP+ Network Port M.2 2242, 2280, 22110 PCI-E 3.0 x4 with M-key IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN	12x Hot-Swap 3.5" SAS2/SATA3 bays (6 Gb/s) Option 4x 2.5" internal HDD drives Up to 128GB DDR4 2133MHz RDIMM or 64GB UDIMM 2-Port 1G Base-T and 2-port 10G SFP+ Network Port M.2 2242, 2280, 22110 PCI-E 3.0 x4 with M-key IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN
Serverboard	SUPER® X10SDV-4C-7TP4F	SUPER® X10SDV-7TP4F
Chipset	Intel® Xeon® Processor D 1518 SoC Processor	Intel® Pentium® D 1537 SoC Processor
System Memory (Max.)*	Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM	Up to 128GB DDR4 2133 MHz RDIMM or 64GB UDIMM
Expansion Slots	1 PCI-E 3.0 x8 full height	1 PCI-E 3.0 x8 full height
Onboard Storage Controller	Broadcomfi 2116 (IT mode)	Broadcomfi 2116 (IT mode)
Connectivity	2x USB 3.0, 5x USB 2.0 port, VGA	2x USB 3.0, 5x USB 2.0 port, VGA
VGA/Audio	Built-in VGA from Aspeed BMC	Built-in VGA from Aspeed BMC
Management	IPMI 2.0 w/ dedicated LAN port & KVM; 4 Pin PWM Fan Speed control; TPM option; Thermal and voltage monitoring	IPMI 2.0 w/ dedicated LAN port & KVM; 4 Pin PWM Fan Speed control; TPM option; Thermal and voltage monitoring
Drive Bays	12x Hot-Swap 3.5" SAS2/SATA3 drive bays (6 Gb/s), Option 4x 2.5" internal HDD drives	12x Hot-Swap 3.5" SAS2/SATA3 drive bays (6 Gb/s), Option 4x 2.5" internal HDD drives
Peripheral Bays	N/A	N/A
Power Supply	400W Redundant Gold Level power supplies	400W Redundant Gold Level power supplies
Cooling System	5x 4cm middle fan	5x 4cm middle fan
Form Factor	1U rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")	1U rackmount 437 x 43 x 813mm (17.2" x 1.7" x 32")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## 24-Bay 2U Storage High Availability Storage Platform

## Super SBB Storage

## Super SBB Storage



MODEL	SSG-2028R-DE2CR24L	SSG-2028R-DN2R48L	SSG-2028R-DN2R24L
Processor Support	Redundant dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with UPI up to 9.6GT/s	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with UPI up to 9.6GT/s
Key Applications	High Availability Storage Appliance Platform	Corporate Database Lustre HPC Virtualization High Availability Storage Appliance Platform	Corporate Database Lustre HPC Virtualization High Availability Storage Appliance Platform
Outstanding Features	Redundant DP SBB supporting shared 24x 2.5 SAS HDD Intel® X540 Dual port 10GBase-T Dual JBOD Expansion Ports per node NV-DIMM support Up to 3 add-on cards per node Redundant 1200W Titanium Level redundant power supplies	Dual port NVMe Support SIOM Card for Multiple IO Option 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies Redundant DP SBB supporting 48x U.2 dual port NVMe Shared storage between redundant controllers Node to node heartbeat/10G connectivity	Dual port NVMe Support SIOM Card for Multiple IO Option 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies Redundant DP SBB supporting 24x U.2 dual port NVMe Shared storage between redundant controllers Node to node heartbeat/10G connectivity
Serverboard	Redundant SUPER® X10DRS-2U	SUPER® X10DSN-TS	SUPER® X10DSN-TS
Chipset	Redundant Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Redundant up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	1TB Registered ECC, DDR4-2400/2133 MHz in 16 DIMM slots (per node)	1TB Registered ECC, DDR4-2400/2133 MHz in 16 DIMM slots (per node)
Expansion Slots	Redundant 3 PCI-E 3.0 x8 Low profile expansion slots per controller	1 PCI-E 3.0 x16 HHHL, 1 PCI-E 3.0 x8 HHHL, 1 SIOM (per node)	1 PCI-E 3.0 x16 HHHL, 1 PCI-E 3.0 x8 HHHL, SIOM (per node)
Onboard Storage Controller	Redundant Broadcom® 3008 SAS controller	Intel® C612 controller for 2 SATA3 (6 Gbps) ports (per node)	Intel® C612 controller for 2 SATA3 (6 Gbps) ports (per node)
Connectivity	Redundant dual LAN with 10GBase-T with Intel® X540 10GbE Controller per node 100M private Ethernet between controller nodes	Dual LAN with Intel® X540 10GBase-T Ethernet Controller (per node)	Dual LAN with Intel® X540 10GBase-T Ethernet Controller (per node)
VGA/Audio	Redundant AST2400 VGA	1 VGA by Aspeed AST2400 BMC (per node)	1 VGA by Aspeed AST2400 BMC (per node)
Management	Redundant IPMI 2.0 + KVM with dedicated LAN	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI;
Drive Bays	Shared 24x 2.5 hot-swap SAS drive bay with SES2	48x 2.5 dual port NVMe drive bay	24x 2.5 dual port NVMe drive bay
Peripheral Bays	N/A	N/A	N/A
Power Supply	Redundant 1200W Titanium Level high-efficiency power supplies with ITC and PMBus	Redundant PWS-2K05A-1R	Redundant PWS-2K05A-1R
Cooling System	Redundant 4x 4cm PWM cooling fans per node	5x 8cm high-performance PWM fans;	5x 8cm high-performance PWM fans;
Form Factor	2U Rackmount 437 x 89 x 622mm (17.2 x 3.5 x 24.5 )	2U Rackmount 17.2 (437mm) x 3.5 (89mm) x 33.3 (846mm)	2U Rackmount 17.2 (437mm) x 3.5 (89mm) x 25.6 (650mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details







## 2U Storage

X10 SAS3 HW RAID controller  
Storage Expandable



## 2U Storage

X10 SAS3 HW RAID controller Storage Expandable



MODEL	SSG-6028R-E1CR12T	SSG-6028R-E1CR12N
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN
Outstanding Features	Onboard Broadcom® 3108 SAS3 HW RAID controller 12x 3.5 hot-swap SAS3/SATA3 drive bays Supports dual 145W CPU Supports 16 DIMM DDR4 up to 2133MHz Dual 10G BaseT Redundant 920W Platinum Level (94%+) Power Supplies	Broadcom® 3108 SAS3 HW RAID controller 12x 3.5 SAS3/SATA3 drive bays 145W CPU support 24 DIMM slots 4x 10G BaseT Dual JBOD Expansion Ports Redundant 920W Platinum Level high efficiency power supplies
Serverboard	SUPER® X10DRH-CT	SUPER® X10DRI-T4+
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 3TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 24 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8	2 PCI-E 3.0 x16 3 PCI-E 3.0 x8 1 PCI-E 3.0 x4 (in x8) Slot 3 & 4 occupied by controller and JBOD expansion port
Onboard Storage Controller	Broadcom® 3108 SAS3 onboard controller card	Broadcom® 3108 SAS3 HW RAID controller card
Connectivity	Dual 10GBase-T with Intel® X540 10GbE Controller	Quad LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12x 3.5 hot-swap SAS3/SATA3 drive bay; Optional 4x NVMe hybrid drive bay support (8x 3.5 + 4x NVMe)	12x 3.5 hot-swap SAS3/SATA3 drive bay; optional 2x 2.5 internal xed drive bay
Peripheral Bays	2x 2.5 optional rear hot-swap drive bay	N/A
Power Supply	920W Redundant Platinum Level high-e ciency power supplies with ITC & PMBus	920W Redundant Platinum Level high-e ciency power supplies with ITC & PMBus
Cooling System	3x 8cm hot-swap redundant PWM cooling fans	3x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U Rackmount 437 x 89 x 647mm (17.2 x 3.5 x 25.5 )	2U Rackmount 437 x 89 x 647mm (17.2 x 3.5 x 25.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## 2U Storage

Storage Expandable

## 2U Storage

3x Broadcomfi 3108 HW controller  
Low Latency



MODEL	SSG-6028R-E1CR12H/L	SSG-2028R-ACR24H
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN	High Performance NAS Servers Web Cache Corporate Database Database Processing & Storage HPC Large Database
Outstanding Features	<ul style="list-style-type: none"> <li>-E1CR12H: Broadcomfi 3108 SAS3 HW RAID controller</li> <li>-E1CR12L: Broadcomfi 3008 SAS3 HBA controller</li> </ul> 12x 3.5 SAS3/SATA3 drive bays 145W CPU support 16 DIMM slots Dual 10G BaseT Dual JBOD Expansion Ports Redundant 920W Platinum Level high efficiency power supplies	145W CPU support 3 Broadcomfi 3108 HW RAID controller Broadcomfi SAS 3.0 (12Gbps) support 16 DIMM support DDR4-2133MHz 2x 10GBase-T Ports IPMI 2.0 + KVM with dedicated LAN
Serverboard	SUPER® X10DRH-IT	SUPER® X10DRH-IT
Chipset	Intel® C612 chipset	Intel® C612 Express chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD expansion port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8
Onboard Storage Controller	-E1CR12H: Broadcomfi 3108 SAS3 HW RAID controller -E1CR12L: Broadcomfi 3008 SAS3 HBA controller	3 Broadcomfi 3108 HW RAID controller
Connectivity	Dual LAN with Intel® X540 10GBase-T Ethernet Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12x 3.5 hot-swap SAS3/SATA3 drive bay; Optional 4x NVMe hybrid drive bay support (8x 3.5 + 4x NVMe); 2x 2.5 optional rear hot-swap drive bay	24x 2.5 hot-swap SAS3/SATA3 drive bay w/ full SES-II support
Peripheral Bays	N/A	Optional 2x 2.5 Rear Hot-Swap Drive Bays
Power Supply	920W Redundant Platinum Level high-efficiency power supplies with iFC & PMBus	Redundant 920W Platinum Level Digital high-efficiency power supplies
Cooling System	3x 8cm hot-swap redundant PWM cooling fans	3x cooling fans
Form Factor	2U Rackmount 437 x 89 x 647mm (17.2 x 3.5 x 25.5 )	2U Rackmount

\* Please check with your Supermicro sales representative and website for compatibility and configuration details









### 2U UP Storage

SAS 3.0,  
12x 3.5 hot-swap HDDs



### 3U Storage

X10 HW SAS3 controller  
Storage Expandable



### 3U Storage

X10 SAS3 HW/IT mode controller  
Storage Expandable



MODEL	SSG-5028R-E1CR12L	SSG-6038R-E1CR16N	SSG-6038R-E1CR16H SSG-6038R-E1CR16L
Processor Support	Single Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Connectivity/Storage Computer Nodes Application and data serving High Availability Storage Appliance Platform	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN
Outstanding Features	Broadcomfi 3008 controller onboard Remote management via dedicated IPMI BMC 12x 3.5 hot-swap SAS3 drive bays Dual JBOD expansion ports	Broadcomfi 3108 SAS3 HW RAID controller 16x 3.5 SAS3/SATA3 drive bays 130W CPU support 24 DIMM slots 4 x 10G BaseT Dual JBOD Expansion Ports 920W Platinum Level high efficiency power supply	16x 3.5 Hot-swap SAS3 drive bays 130W CPU support 16 DIMM slots Dual 10G BaseT Dual JBOD Expansion Ports 920W Platinum Level high efficiency power supply
Serverboard	SUPER® X10SRH-CLN4F	SUPER® X10DRi-T4+	SUPER® X10DRH-IT
Chipset	Intel® C612 Express chipset U sue0-1/C 3DS25RD89 o RD89 DDR4ze-0. -1.D89 s (6s 1141 (S31 1 Tfufi100.002TBq (e0-1/C 3DS25RD89 o RD89 DDR4)Tj00MHTJ05 (ze)-14.3 (-0. T1D89 s (6s 114		

**SBB 3U Storage**  
High Availability Storage Platform

**4U Storage**  
Double-Sided Storage

**Capacity Maximized**  
Top-Loading 45 Bay



MODEL	SSG-6038R-DE2CR16L	SSG-6048R-E1CR72L	SSG-6048R-E1CR45H SSG-6048R-E1CR45L
Processor Support	Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; OPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; OPI up to 9.6GT/s	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with OPI up to Dual 8.0GT/s
Key Applications	High Availability Storage Appliance Platform	CDN Media/Streaming NAS and IP-SAN Unstructured Data Storage Virtual Tape	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN
Outstanding Features	Redundant DP SBB supporting shared 16x 3.5 HDD Intel® X540 dual port 10GBase-T Dual JBOD expansion ports per node NV-DIMM support Up to 3 add-on cards per node Redundant 1200W Titanium Level (96%+) power supplies	High Density 4U Server supports 72x 3.5 SAS3 drives Supports dual 145W CPU Supports 16 DIMM DDR4 up to 2133MHz Support 72x 3.5 SAS3 HDD 3 Broadcom® 3008 SAS3 HBA controllers Dual 10G BaseT	45x 3.5 Drive in 4U Form Factor Supports up to Dual 160W Broadwell CPU 24 DIMM sockets Optional 6x NVMe drive bay Support SIOm Card for Multiple IO Option • -H: Broadcom® 3108 SAS3 controller • -L: Broadcom® 3008 SAS3 controller; RAID 0, 1, 10
Serverboard	Redundant SUPER® X10DRS-3U	SUPER® X10DRH-iT	
Chipset	Redundant Intel® C612 chipset	Intel® C612 chipset	Intel® C624 chipset
System Memory (Max.)*	Redundant up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	Redundant 3 PCI-E 3.0 x8 (1x HHL, 2x LPHL) expansion slots per controller	3x slots occupied by IT Mode disk controllers Broadcom® 3008; 4x Low profile slots available	3 PCI-E 3.0 x16; 4 PCI-E 3.0 x8;
Onboard Storage Controller	Redundant Broadcom® 3008 SAS3 controller	3 Broadcom® 3008 SAS3 HBA controllers	Intel® C624 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Redundant dual LAN with 10GBase-T with Intel® X540 10GbE Controller per node; 100M private Ethernet between controller nodes	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with 10GBase-T with Intel® X557;
VGA/Audio	Redundant AST2400 VGA	AST2400 VGA	1 VGA
Management	Redundant IPMI 2.0 + KVM with dedicated LAN	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
Drive Bays	Shared 16x 3.5 hot-swap SAS drive bay with SES2	72x 3.5 hot-swap SAS3/SATA3 drive bays with SES2	45x 3.5 hot-swap SAS/SATA drive bay with SES3
Peripheral Bays	N/A	2x 2.5 rear hot-swap drive bays	2x 2.5 hot-swap drive bay
Power Supply	Redundant 1200W Titanium (96%+) Level high-efficiency power supplies with I²C & PMBus	2000W Redundant Platinum Level high-efficiency power supplies with I²C & PMBus	Yes Redundant 2 Qty. PWS-1K66P-1R
Cooling System	Redundant 6x 4cm PWM cooling fans per node	7x 92mm hot-swap redundant PWM cooling fans	5x 80mm rear hot-swap exhaust PWM fan;
Form Factor	3U Rackmount 437 x 132 x 647mm (17.2 x 5.2 x 25.5 )	4U Rackmount 437 x 178 x 889mm (17.2 x 7 x 35 )	4U Rackmount 437 x 178 x 660mm (17.2 x 7 x 26 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details







### 4U Storage

X10 SAS3 IT controller, Storage Expandable



### 4U Storage

X10 HW SAS3 controller, Storage Expandable



MODEL	SSG-6048R-E1CR36L	SSG-6048R-E1CR36H
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN	Corporate Database Data Center Database Processing & Storage Enterprise Server HPC iSCSI SAN
Outstanding Features	Broadcomfi 3008 SAS3 HBA controller 1280W Platinum Level redundant high-efficiency power supplies 145W CPU support 36x 3.5 Hot-swap SAS3 bays Dual JBOD Expansion Ports Dual 10G BaseT 16 DIMM slots	Broadcomfi 3108 SAS3 HW RAID controller 1280W Platinum Level redundant high-efficiency power supplies 145W CPU support 36x 3.5 Hot-swap SAS3 bays Dual JBOD Expansion Ports Dual 10G BaseT 16 DIMM slots
Serverboard	SUPER® X10DRH-iT	SUPER® X10DRH-iT
Chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD Expansion Port	1 PCI-E 3.0 x16 6 PCI-E 3.0 x8 Slot 1 & 2 occupied by controller and JBOD Expansion Port
Onboard Storage Controller	Broadcomfi 3008 SAS3 HBA controller	Broadcomfi 3108 SAS3 HW RAID controller
Connectivity	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller	Dual LAN with 10GBase-T with Intel® X540 10GbE Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	36x 3.5 hot-swap SAS3/SATA3 drive bays; 2x 2.5 optional rear hot-swap drive bays; 4x 2.5 internal fixed drive bays; Optional 4x NVMe hybrid drive bay support (32x 3.5 + 4x NVMe)	36x 3.5 hot-swap SAS3/SATA3 drive bays; 2x 2.5 optional rear hot-swap drive bays; 4x 2.5 internal fixed drive bays; Optional 4x NVMe hybrid drive bay support (32x 3.5 + 4x NVMe)
Peripheral Bays	N/A	N/A
Power Supply	1280W Redundant Platinum Level high-efficiency power supplies with I <sup>2</sup> C & PMBus	1280W Redundant Platinum Level high-efficiency power supplies with I <sup>2</sup> C & PMBus
Cooling System	7x 8cm high-performance PWM fans, air shroud	7x 8cm high-performance PWM fans, air shroud
Form Factor	4U Rackmount 437 x 178 x 699mm (17.2 x 7 x 27.5 )	4U Rackmount 437 x 178 x 699mm (17.2 x 7 x 27.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**4U UP Storage**  
SAS 3.0, 36x 3.5 hot-swap HDDs

**4U Storage**  
High Availability Storage Platform



MODEL	SSG-5048R-E1CR36L	SSG-6048R-DE2CR24L
Processor Support	Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Redundant dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Connectivity/Storage Computer Nodes Database Processing & Storage	High Availability Storage Appliance Platform
Outstanding Features	Broadcomfi 3008 SAS3 HBA controller onboard Remote management via dedicated IPMI BMC 36x 3.5 Hot-swap SAS3 bays External port for JBOD connect	Redundant DP SBB supporting shared 24x 3.5 HDD Intel® X540 Dual port 10GBase-T Dual JBOD expansion ports per node NV-DIMM support Up to 3 add-on cards per node Titanium Level power supplies
Serverboard	SUPER® X10SRH-CLN4F	Redundant SUPER® X10DRS-4U
Chipset	Intel® C612 Express chipset	Redundant Intel® C612 chipset
System Memory (Max.)*	Up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Redundant up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	4x PCI-E 3.0 (x8/4, x16/8, x8) + 2x PCI-E 2.0 (x8/4, x4/2)	Redundant 3 PCI-E 3.0 x8 (1x HHL, 2x LPHL) expansion slots per controller
Onboard Storage Controller	Broadcomfi 3008 SAS3 HBA controller onboard	Redundant Broadcomfi 3008 SAS controller
Connectivity	4x GbE port, 1x dedicated IPMI port	Redundant dual LAN with 10GBase-T with Intel® X540 10GbE Controller per node; 100M private Ethernet between controller nodes
VGA/Audio	AST2400 VGA	Redundant AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Redundant IPMI 2.0 + KVM with dedicated LAN
Drive Bays	36x 3.5 Hot-swap SAS3 bays; 2x 2.5 optional rear hot-swap drive bays	Shared 24x 3.5 hot-swap SAS drive bay with SES2
Peripheral Bays	N/A	N/A
Power Supply	1280W Redundant Platinum Level high-efficiency power supplies with I²C & PMBus	Redundant 1600W Titanium Level high-efficiency power supplies with I²C & PMBus
Cooling System	7x 80mm middle cooling fans	Redundant 2x 4cm PWM cooling fans and 4x 8cm system PWM cooling fans
Form Factor	4U Rackmount 437 x 178 x 699mm (17.2 x 7 x 27.5 )	4U Rackmount 437 x 178 x 648mm (17.2 x 7 x 25.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





### 4U JBOD Storage



### 4U JBOD Storage



### 4U JBOD Storage



MODEL	CSE-946ED-R2KJBOD	CSE-946LE1C-R1K66JBOD	CSE-946SE1C-R1K66JBOD CSE-946SE2C-R1K66JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Extreme High Density and High Capacity Dual-path Storage Enclosure	Ideal for Cloud backup, data Replication or High density Archive Storage Applications	Cloud backup, data Replication or High density Archive Storage Applications
Outstanding Features	Support 90x 3.5" or 2.5" Top Loading SAS3 12Gbps Hot-swappable HDDs Hot-swappable Expanders with redundant BMC for Remote System Power on/off and monitoring Hot-swappable Tool-less Modular Design for Easy Service and Easy Maintenance High Performance up to 20+ Gbps data transfer rate Flexible to configure up to 4 Hosts HDD Zoning and individual HDD power cycling Slide Rails and Cable Management Arm included	Extreme High Density and High Capacity Storage Chassis support 45 x 3.5" Top Loading SAS/SATA 12Gb/s Hot Swapping HDD/SSD Bays Tool-less HDD tray with HDD LED indicator Single Expander Backplane Boards support SAS3/2 HDDs with 12Gb/s throughput 4 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	60x 3.5" Top Loading SAS3/SATA3 12Gb/s Hot Swapping HDD/SSD Bays Dual/Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements Cable Management Arm included Support front LCD panel for system status & error info (Option)
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Dual Hot-swappable SAS3 expander w/ mini SAS HD connectors	Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput	Dual/Single Expander Backplane Board(s) support SAS3/2 HDDs with 12Gb/s throughput
Connectivity	Redundant IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio			
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays		45x 3.5" hot-swap SAS/SATA drive bay with SES3	
Peripheral Bays			
Power Supply	4x 1U 1000W Redundant Titanium Level Power Supply	2x 1600W redundant power supply, Platinum level with PMBus & I2C	1600W (1+1) Redundant Platinum Level High-efficiency Power Supplies
Cooling System	8x 4cm PWM FANS	5x 80mm rear hot-swap exhaust PWM fan(s)	4x 40mm Fans, 4x 80mm Fans
Form Factor	2U Rackmount 437 x 89 x 622.3mm (17.2 x 3.5 x 24.5 )	4U Rackmount	



## 4U JBOD Storage

## 4U JBOD Storage

## 4U JBOD Storage



Front View



Front View



Rear View



Rear View

(Rear View)

MODEL	CSE-847DE1C-R2K04JBOD CSE-847DE2C-R2K04JBOD	CSE-847E1C-R1K28JBOD CSE-847E2C-R1K28JBOD	CSE-846BE1C-R1K03JBOD CSE-846BE2C-R1K03JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Cloud backup, data Replication or High density Archive Storage Applications	Cloud backup, data Replication or High density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications
Outstanding Features	90x 3.5 hot-swappable HDDs in 45 drive bays Dual/Single Expander Board and Front/Rear Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gbps throughput 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements Support NTP for time synchronization & RTC battery backup	44x (24 front + 20 rear) 3.5 hot-swap SAS3 HDD bays with Single/Dual SAS3 expanders w/ MiniSAS HD connectors 1280W Platinum Level redundant power supplies with PMBus function Dual/Single SAS3 (12 Gbps) expander backplane; E2C: Dual SAS3 (12 Gbps) expander backplane;	4U Storage JBOD Chassis with capacity 24 x 3.5 hot-swappable HDDs bays Single/Dual Expanders Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput 8x (Dual Expander) / 4x (Single Expander) Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Dual/Single SAS3 expander backplane w/ miniSAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors
Connectivity	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays	90x 3.5 HDDs in 45x Hot-swap Drive Bays (2x HDD per bay)	44x (24 front + 20 rear) 3.5 hot-swap SAS3 drive bays w/SES3	24x 3.5 hot-swap SAS3 drive bays w/ SES-3
Peripheral Bays			
Power Supply	2000W (1+1) Redundant Titanium Level Power Supply	Redundant (1+1) 1280W Platinum Level Digital power supply with PMBus	Redundant (1+1) 1280W Platinum Level Digital power supply with PMBus
Cooling System	7x 92mm high efficient hot-swappable fans for best system cooling	7x 80mm Hot-swap Fans	3x 80mm hot-swap redundant PWM cooling fans 2x 80mm hot-swap exhaust fans & air shroud
Form Factor	4U Rackmount 447 x 178 x 889mm (17.6 x 7 x 35 )	4U Rackmount 447 x 178 x 699mm (17.6 x 7 x 27.5 )	4U Rackmount 447 x 178 x 660mm (17.6 x 7 x 26 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 4U JBOD Storage



Front View - 48x 2.5" HDDs



Rear View - 24x 2.5" HDDs

## 3U JBOD Storage



Front View



Rear View

MODEL	CSE-417BE1C-R1K23JBOD CSE-417BE2C-R1K23JBOD	CSE-836BE1C-R1K03JBOD CSE-836BE2C-R1K03JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications
Outstanding Features	4U JBOD storage chassis with capacity 72x (48 front + 24 rear) 2.5" hot-swap HDD bays SAS3 (12Gbps) dual/single expander backplanes Redundant 1200W Titanium Level (1+1) power supplies with PMBus Optimized thermal solution with 100% redundant cooling design	3U Storage JBOD Chassis with capacity 16 x 3.5" hot-swappable HDDs bays Dual Expander Backplane Boards support SAS3/2 HDDs with 12Gb/s throughput 8 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements 1x IPMI port for Remote System Power on/off and system monitoring Support NTP for time synchronization & RTC battery backup
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Dual/Single SAS3 (12Gbps) expander backplanes	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors
Connectivity	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays	72x (48 front + 24 rear) 2.5" hot-swap HDD bays	16x 3.5" hot-swap SAS3 drive bays w/ SES-3
Peripheral Bays		
Power Supply	Redundant 1200W Titanium Level (1+1) power supplies with PMBus	Redundant (1+1) 1280W Platinum Level Digital power supply with PMBus
Cooling System	7x 80mm hot-swap redundant cooling fans	3x 80mm hot-swap redundant PWM cooling fans 2x 80mm hot-swap exhaust fans & air shroud
Form Factor	4U Rackmount 437 x 178 x 699mm (17.2 x 7 x 27.5 )	3U Rackmount 437 x 132 x 647mm (17.2 x 5.2 x 25.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 2U JBOD Storage



Rear View

## 2U JBOD Storage



## 2U JBOD Storage



MODEL	CSE-826SE1C-R1K02JBOD	CSE-826BE1C-R741JBOD CSE-826BE2C-R741JBOD	CSE-216BE1C-R741JBOD CSE-216BE2C-R741JBOD
Processor Support	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Key Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications	Cloud Backup, Data Replication, or High Density Archive Storage Applications
Outstanding Features	24x (12 front + 12 middle) 3.5 hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gbps throughput Redundant 1000W Titanium Level (1+1) power supplies with PMBus 5x 8cm (middle) hot-swap redundant cooling fans Single SAS3 (12Gbps) expander backplane 4x External mini SAS HD Cable Management Arm included	12x 3.5 hot-swappable HDDs bays Dual/Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput 8x (Dual Expander) / 4x (Single Expander) Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	24x 2.5 hot-swappable HDDs bays Dual/Single Expander Backplane Boards support SAS3/2 or SATA3 HDDs with 12Gb/s throughput 8x (Dual Expander) / 4x (Single Expander) Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
Serverboard	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Chipset	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
System Memory (Max.)*	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Expansion Slots	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Onboard Storage Controller	Single SAS3 (12Gbps) expander backplane w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors	Dual/Single SAS3 (12Gbps) expanders w/ mini SAS HD connectors
Connectivity	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port	IPMI 2.0 with dedicated LAN port
VGA/Audio	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Management	N/A (please refer to Server Model)	N/A (please refer to Server Model)	N/A (please refer to Server Model)
Drive Bays	24x (12 front + 12 middle) 3.5 hot-swap SAS3/SATA3 (12Gbps) Hot-Swap Drive Bays	12x 3.5 SAS3 (12Gbps) Hot-Swap Drive Bays	24x 2.5 SAS3 (12Gbps) Hot-Swap Drive Bays
Peripheral Bays			
Power Supply	Redundant 1000W Titanium Level (1+1) power supplies with PMBus	Redundant 740W (1+1) 95% efficient Platinum Level power supplies	Redundant 740W (1+1) 95% efficient Platinum Level power supplies
Cooling System	5x 80mm (middle) hot-swap redundant cooling fans	3x 80mm (middle) hot-swap redundant cooling fans	3x 80mm (middle) hot-swap redundant cooling fans
Form Factor	2U Rackmount 437 x 89 x 863mm (17.2 x 3.5 x 34 )	2U Rackmount 437 x 89 x 647mm (17.2 x 3.5 x 25.5 )	2U Rackmount 437 x 89 x 630mm (17.2 x 3.5 x 24.8 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

# X11 GPU

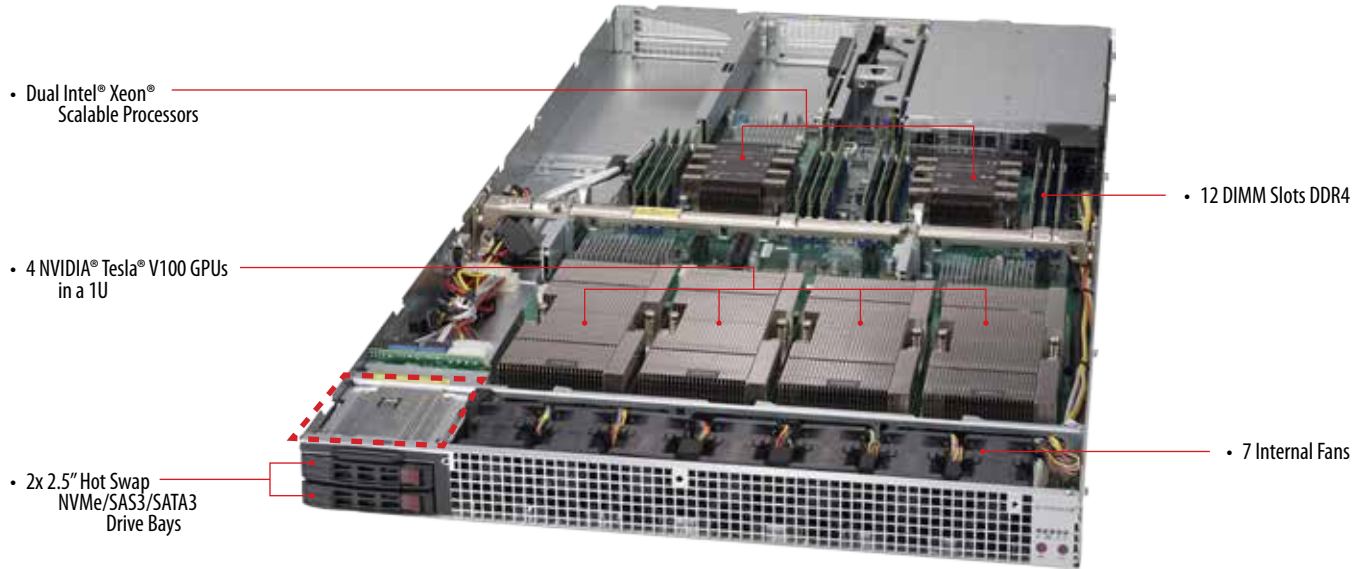
Intel® Xeon® Scalable Processors Supported



2/4/6/8/10 GPU/Coprocessors in 1U/2U/4U

Supports up to: • 56 Cores per Server • 205W TDP CPUs • 3TB DDR4-2666MHz in 24 DIMMs

• 10GBase-T • Redundant Titanium Level (96%) Power Supplies



• Dual Intel® Xeon® Scalable Processors

• 4 NVIDIA® Tesla® V100 GPUs in a 1U

• 2x 2.5" Hot Swap NVMe/SAS3/SATA3 Drive Bays

• 12 DIMM Slots DDR4

• 7 Internal Fans

**SYS-1029GQ-TVRT**  
4 GPU in 1U



• 8 NVIDIA® Tesla® V100 with NVLink™ in 4U

• 4 PCI-E 3.0 x16 Slots for GPU Direct RDMA

• Onboard 10G Ethernet

• 16x 2.5" Hot-swap SATA3 Drive Bays supporting 8 NVMe SSDs

• Redundant 4000W Titanium Level Power Supplies

• Dual Intel® Xeon® Scalable Processors

• 24 DIMM Slots DDR4

• 2 PCI-E 3.0 x16 Slots

**SYS-4029GP-TVRT**

GPU



## GPU

Artificial Intelligence, NVIDIAfi Teslafi V100 SXM2



## 1U X11 GPU



MODEL	SYS-1029GQ-TVRT	SYS-1029GQ-TRT/TXRT/TNRT
Processor Support	Intel® Xeon® Processor Scalable Family (Skylake) with UPI up to 10.4 GT/s	Intel® Xeon® Processor Scalable Family (Skylake) with UPI up to 10.4 GT/s
Key Applications	Artificial Intelligence Big Data Analytics High-performance computing Research lab/National Lab Astrophysics Business Intelligence	High-performance computing Big Data Analytics Business Intelligence Research lab/National Lab Astrophysics
Outstanding Features	Optimized for GPUDirect RDMA Supports 2000W Titanium Power Supply IPMI 2.0 + KVM with dedicated LAN GPU health monitoring with fan speed control	Supports up to 4 GPUs in 1U Support Active/Passive GPUs Supports 2000W Titanium Power Supply IPMI 2.0 + KVM with dedicated LAN GPU health monitoring with fan speed control
Serverboard	SUPER <sup>®</sup> X11DGQ	SUPER <sup>®</sup> X11DGQ
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	1.5TB 3DS ECC, DDR4-2666 in 12 DIMM slots	1.5TB 3DS ECC, DDR4-2666 in 12 DIMM slots
Expansion Slots	4 x PCI-E by 16 slots	-TRT: 4 PCI-E 3.0 x16 slots (FHFL); 2 PCI-E 3.0 x16 (LP) -TNRT: 4 PCI-E 3.0 x16 slots (FHFL); 1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x8 (LP) -TXRT: 4 PCI-E 3.0 x16
Onboard Storage Controller	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	2 10GBase-T ports; Intel® X540 10GBase-T	2 10GBase-T ports; Intel® X540 10GBase-T
VGA/Audio	Aspeed AST2500	Aspeed AST2500
Management	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctorfi 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctorfi 5;
Drive Bays	2 x 2.5 hot-swap SAS/SATA/NVME drive bay; 2x 2.5 Internal Fixed drive bay	2 x 2.5 hot-swap SAS/SATA/NVME drive bay; 2x 2.5 Internal Fixed drive bay
Peripheral Bays	N/A	N/A
Power Supply	2000W Titanium level efficiency redundant power supplies	2000W Titanium level efficiency redundant power supplies
Cooling System	7x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 894mm (17.2 x 1.7 x 35.2 ); Enclosure: 437 x 43 x 894mm (17.2 x 1.7 x 35.2 )	1U Rackmount 437 x 43 x 894mm (17.2 x 1.7 x 35.2 ); Enclosure: 437 x 43 x 894mm (17.2 x 1.7 x 35.2 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## 1U X11 GPU

## X11 GPU/Coprocessor 1U UP 2 GPUs



MODEL	SYS-1029GP-TR	SYS-1019GP-TT SYS-5019GP-TT
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s	Intel® Xeon® Processor 81xx/61xx/51xx/41xx/31xx series
Key Applications	2D/3D and CAD Applications 3D Rendering Astrophysics Chemistry Cloud and Virtualization needs Cloud Computing	HPC cluster computer nodes
Outstanding Features	16 DIMM sockets 4x 2.5" SATA drives GPU health monitoring with fan speed control Up to 3 GPU cards in 1U	3x 3.5" SAS/SATA drive bays 512GB DDR3 SDRAM 1400W Platinum Level high-efficiency power supply IPMI 2.0 + KVM with dedicated LAN UID LED
Serverboard	SUPER <sup>®</sup> X11DPG-SN	SUPER <sup>®</sup> X11SPG-TF
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 6x 288-pin DDR4 DIMM slots; Up to 768GB ECC 3DS LRDIMM; Up to 384GB ECC LRDIMM; Up to 192GB ECC RDIMM
Expansion Slots	4 PCI-E 3.0 x16; 1 PCI-E 3.0 x8 (in x16) low profile slot	1 PCI-E 3.0 x16 Center Right Hand Slot; 1 PCI-E 3.0 x16 Left Riser Slot; 1 PCI-E 3.0 x16 Right Riser Slot;
Onboard Storage Controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	N/A	N/A
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	1 VGA
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SUM; SuperDoctorfi 5; Watchdog;
Drive Bays	4 x 2.5" hot-swap SAS/SATA drive bay	-1019GP-TT: 6x 2.5" hot-swap SAS/SATA drive bay -5019GP-TT: 3x 3.5" hot-swap SAS/SATA
Peripheral Bays	N/A	
Power Supply	1600W Platinum level efficiency redundant power supplies	1400W Redundant Platinum Level high-efficiency power supplies with I2C & PMBus
Cooling System	10 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	8x 4cm high-performance counter-rotating PWM fans with optimal fan speed control;
Form Factor	1U 17.2 (437mm) x 1.7 (43 mm) x 30.6 (777 mm)	-1019GP-TT: 1U 17.2 (437mm) x 1.7 (43mm) x 28.5 (724mm) -5019GP-TT: 1U 17.2 (437mm) x 1.7 (43mm) x 28.2 (716mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

GPU



GPU



## X11 GPU/Coprocessor Optimized

4U 8/10 GPUs

## Workstation

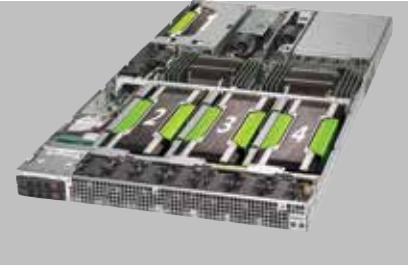
4U GPU



MODEL	SYS-4029GP-TRT SYS-4029GP-TRT2	SYS-7049GP-TRT
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s
Key Applications	3D Rendering Astrophysics Chemistry Cloud and Virtualization needs Cloud Computing Compute Intensive Application	Scientific Virtualization High Performance Computing High-End GPU workstation Bio-Informatics Machine Learning Computer Aided Design
Outstanding Features	24 DIMM sockets 24x 2.5 SATA drives Support up to 8 GPUs Support up to 160W CPU Optimized cooling with no GPU pre-heat 1600W (2+2) Redundant Platinum Level Power Supplies with PMBus	Redundant 2000W Titanium Power Supplies 16 DIMM slots 8 Hot-Swap 3.5 SATA/SAS Drives 7.1 HD Audio Header
Serverboard	SUPER <sup>®</sup> X11DPG-OT-CPU	SUPER <sup>®</sup> X11DPG-QT
Chipset	Intel® C622 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots	2TB 3DS ECC, DDR4-2666 in 16 DIMM slots
Expansion Slots	-TRT: 8 x PCI-E Gen.3 x16 support up to 8 double width GPU 2 x PCI-E Gen.3 x8 1 x PCI-E Gen.2 x4 -TRT2: 11 PCI-E 3.0 x16 (FH, FL); 1 PCI-E 3.0 x8 (FH, FL, in x16 slot);	6 PCI-E 3.0 x16 Slots; 1 PCI-E x4 (in x8 slot)
Onboard Storage Controller	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	N/A	2 10GBase-T ports; Intel® X550 10GBase-T
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	Aspeed AST2500
Management	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; IPMI2.0; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
Drive Bays	-TRT: 24 x 2.5 Hot-wap SATA/SAS drives -TRT2: 24 x 2.5 HDD drives	8 Hot-swap 3.5 Drive Bays; (2x SATA3 ports default)
Peripheral Bays	N.A	N/A
Power Supply	-TRT: 1600W(2+2) Redundant Power Supplies Platinum Level (94%+) -TRT2: 4 x 2000W Redundant Titanium Level high-efficiency power supplies with I2C & PMBus	2000W Titanium Level efficiency redundant power supplies
Cooling System	-TRT: 8x 92mm RPM Hot-Swappable Cooling Fans -TRT2: 8x 92mm heavy duty counter-rotating fans with air shroud & optimal fan speed control	4 heavy duty fans, 4 exhaust fans, and 2 active heat sink w/ Optimal Fan Speed Control
Form Factor	4U Rackmount; Enclosure: 437 x 178 x 737mm (17.2 x 7.0 x 29 )	4U Rackmount/Workstation 462 x 178 x 673mm (18.2 x 7.0 x 26.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

GPU



## 1U 4 Pascal GPU

## 1U 4-GPU/Coprocessor

MODEL	SYS-1028GQ-TVRT	SYS-1028GQ-TXR SYS-1028GQ-TXRT	SYS-1028GQ-TR SYS-1028GQ-TRT
Processor Support	Dual Intel® Xeon® Processor E5-2600 V4 (Broadwell) product family with UPI up to 9.6 GT/s	Dual Intel® Xeon® Processor E5-2600 v4 product family with QPI up to 9.6 GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Artificial Intelligence Big Data Analytics High-performance computing Research lab/National Lab Astrophysics Business Intelligence	Artificial Intelligence Big Data Analytics High-performance computing Research lab/National Lab Astrophysics Business Intelligence	HPC cluster computer nodes 2D/3D and CAD Applications High-performance computing Oil & Gas Cloud and Virtualization needs Astrophysics
Outstanding Features	Supports up to 4 Nvidia Tesla V100 SXM2 GPUs in 1U Enables 300GB/s GPU-to-GPU NVLink Optimized for GPUDirect RDMA Supports 2000W Titanium Power Supply IPMI 2.0 + KVM with dedicated LAN GPU health monitoring with fan speed control	Supports up to 4 Pascal GPUs with 80GB/s NVLink Optimized for GPUDirect RDMA 145W CPU support 16 DIMM support (96%) Power Supplies 2x 2.5 Hot-Swap HDD and internal 2x 2.5 HDD IPMI 2.0 + KVM with dedicated LAN GPU health monitoring with fan speed control	Up to 4 double width GPU cards in 1U Supports 16 DIMM DDR4-2133MHz 2000W Redundant <b>Platinum Level</b> high-efficiency power supplies 4x 2.5 SATA drives IPMI 2.0 + KVM with dedicated LAN GPU health monitoring with fan speed control
Serverboard	SUPER <sup>®</sup> X10DGQ	SUPER <sup>®</sup> X10DGQ	SUPER <sup>®</sup> X10DGQ
Chipset	Intel® C612 chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC LRDIMM, 1TB ECC RDIMM	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	3 x PCI-E by 16 slots; 1 x PCI-E by 8 low profile slots	3 PCI-E by 16 slots 1 PCI-E by 8 low profile slot	4 PCI-E 3.0 x16 slots (4x GPU/Coprocessor opt.) 2 PCI-E 3.0 x8 (in x16) low profile slot
Onboard Storage Controller	Intel® C612 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10	Intel® C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10
Connectivity	Dual LAN with Intel X540 Gigabit Ethernet controller; Matrox G200ew graphics	-TXR: Dual LAN with Intel® i350 Gigabit Ethernet controller -TXRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-TR: Dual LAN with Intel® i350 Gigabit Ethernet controller -TRT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	1 VGA, 1 Aspeed AST2400 BMC;	AST2400 VGA	AST2400 VGA
Management	Intel® Node Manager; IPMI2.0; NMI; SPM; SUM; SuperDoctor <sup>®</sup> 5; Watchdog;	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	2 x 2.5 hot-swap SAS/SATA drive bay	2x 2.5 hot-swap SATA drive bays; 2x 2.5 internal HDDs	2x 2.5 hot-swap SATA drive bays; 2x 2.5 internal HDDs
Peripheral Bays	N/A	N/A	N/A
Power Supply	2000W Titanium level efficiency redundant power supplies	Redundant 2000W <b>Titanium Level</b> high-efficiency power supplies	Redundant 2000W <b>Platinum Level</b> high-efficiency power supplies
Cooling System	8 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control	9x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control	9x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control
Form Factor	1U Rackmount; Enclosure: 437 x 43 x 894mm (17.2 x 1.7 x 35.2 )	1U Rackmount 437 x 43 x 894mm (17.2 x 1.7 x 35.2 )	1U Rackmount 437 x 43 x 894mm (17.2 x 1.7 x 35.2 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

GPU

## 1U 3-GPU/Coprocessor

## 2U GPU/Coprocessor Tesla<sup>®</sup> Kepler Ready!

## GPU/Coprocessor TwinPro/TwinPro<sup>2</sup>



MODEL	SYS-1028GR-TR SYS-1028GR-TRT	SYS-2028GR-TR(T) SYS-2028GR-TRH(T)	SYS-5028TK-HTR
Processor Support	Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Coprocessor (codename Knights Landing); optional integrated Intel <sup>®</sup> Omni-Path fabric
Key Applications	2D/3D and CAD Applications 3D Rendering Astrophysics Chemistry Cloud and Virtualization needs Cloud Computing Financial Analysis High-performance computing Oil & Gas	2D/3D and CAD Applications 3D Rendering Astrophysics Chemistry Cloud and Virtualization needs Cloud Computing Financial Analysis High-performance computing Oil & Gas	HPC/Cluster Financial Analysis Oil and Gas Simulation
Outstanding Features	Supports 16 DIMM DDR4-2133MHz 4x 2.5 SATA drives GPU health monitoring with fan speed control Up to 3 GPU cards in 1U	Up to 6 PCI-E 3.0 x16 slots support 6 double-width GPU cards 10x 2.5 SAS/SATA drive bays 16 DIMM slots GPU health monitoring with fan speed control High-density, Enterprise Performance, Cost-effective	2 low-profile PCI-E x16 slots Intel <sup>®</sup> Omni-Path fabric support 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN
Serverboard	-TR: SUPER <sup>®</sup> X10DRG-H -TRT: SUPER <sup>®</sup> X10DRG-HT	-TR/TRH: SUPER <sup>®</sup> X10DRG-H -TRT/TRHT: SUPER <sup>®</sup> X10DRG-HT	SUPER <sup>®</sup> K1SPi
Chipset	Intel <sup>®</sup> C612 Chipset	Intel <sup>®</sup> C612 Chipset	Intel <sup>®</sup> C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 384GB ECC LRDIMM, 192GB ECC RDIMM, DDR4-2400MHz in 6 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 slots (3x GPU/Coprocessor opt.) 1 PCI-E 3.0 x8 (in x16) low profile slot	-TR(T): 4x PCI-E 3.0 x16 slots (GPU/Coprocessor opt.); 1 x PCI-E 3.0 x8 (in x16) low profile slot; -TRH(T): 6x PCI-E 3.0 x16 slots (GPU/Coprocessor opt.); 1x PCI-E 3.0 x8 (in x16) low profile slot	Quad set of 2 PCI-E x16 (LP)
Onboard Storage Controller	Intel <sup>®</sup> C612 controller for 4 SATA3 (6Gbps) Ports; RAID 0,1,5,10	Intel <sup>®</sup> C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Quad set of Intel <sup>®</sup> C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	-TR: Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller -TRT: Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector	-TR/TRH: Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller -TRT/TRHT: Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector	Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller
VGA/Audio	AST2400 VGA	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN
Drive Bays	4x 2.5 hot-swap SAS/SATA drive bays	10 x 2.5 hot-swap SAS/SATA drive bay	Quad set of 3x 3.5 hot-swap SATA drive bays
Peripheral Bays	N/A	N/A	1x slim DVD-ROM drive bay 2x USB 2.0 ports (option)
Power Supply	Redundant 1600W Platinum Level high-efficiency power supplies	Redundant 2000W Platinum Level high-efficiency power supplies	Redundant 2000W Platinum Level high-efficiency Power Supplies with iPC & PMBus
Cooling System	10x 4cm heavy duty counter-rotating PWM fans with air shroud with optimal fan speed control	5x 8cm heavy duty fans with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control
Form Factor	1U Rackmount 437 x 43 x 777mm (17.2 x 1.7 x 30.6 )	2U Rackmount 437 x 89 x 787mm (17.2 x 3.5 x 31 )	2U Rackmount 438 x 88 x 762mm (17.25 x 3.47 x 30 )

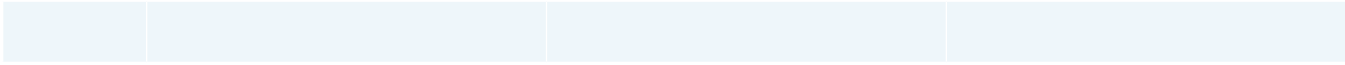
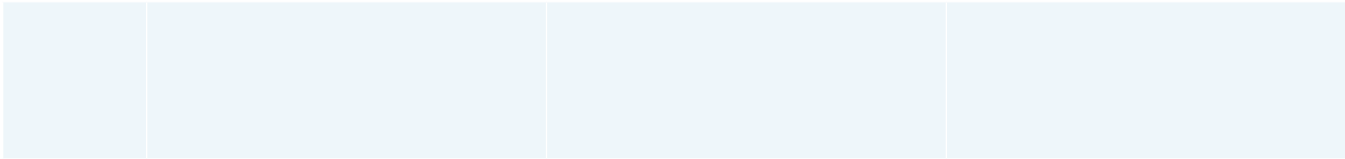
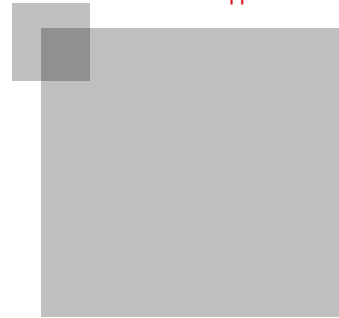
\* Please check with your Supermicro sales representative and website for compatibility and configuration details



4U 8-GPU/Coprocessor

Supports 8 GPU/Coprocessor

Supports 4 GPU/Coprocessor  
Thunderbolt Support



GPU



## X11 BigTwin 3UPI

Quad DP Nodes, 24 NVMe Drive Bays

## X11 BigTwin

Quad DP Nodes, 24 NVMe Drive Bays



MODEL	SYS-2029BZ-HNR	SYS-2029BT-HNR
Processor Support	Dual Intel® Xeon® Scalable processors; 3 UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s
Key Applications	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC
Outstanding Features	4 Nodes in 2U 24 DIMMs per node NVMe Support 2 M.2 SATA3 or NVMe support 2 Low -profile PCI-E X16 slot 1 SIOM card support	4 Nodes in 2U 24 DIMMs per node NVMe Support 2 M.2 SATA3 or NVMe support 2 Low -profile PCI-E X16 slot 1 SIOM card support
Serverboard	SUPER <sup>®</sup> X11DPT-BH	SUPER <sup>®</sup> X11DPT-B
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
Expansion Slots	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card
Onboard Storage Controller	NVMe	NVMe
Connectivity	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog
Drive Bays	6 Hot-swap 2.5 NVMe drive bays per node	6 Hot-swap 2.5 NVMe drive bays per node
Peripheral Bays	N/A	N/A
Power Supply	Redundant 2600W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
Cooling System	4x 40x56mm heavy duty PWM fans per node with air shroud	4x 80mm heavy duty PWM fans with air shroud
Form Factor	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6 x 3.47 x 28.75 ) (9.76 x 24.65 x 45.28 )	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6 x 3.47 x 28.75 ) (9.76 x 24.65 x 45.28 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## X11 BigTwin

Quad DP Nodes, 24 Hybrid NVMe/SAS3 HW RAID Drive Bays

## X11 BigTwin

Quad DP Nodes, 24 Hybrid NVMe/SAS3 Drive Bays

## X11 BigTwin

Quad DP Nodes, 12 Hybrid SAS3/NVMe Drive Bays



MODEL	SYS-2029BT-HNC1R	SYS-2029BT-HNCOR	SYS-6029BT-HNCOR
Processor Support	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s
Key Applications	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC
Outstanding Features	4 Nodes in 2U 24 DIMMs per node 12Gb/s SAS HW RAID & NVMe 2 M.2 SATA3 or NVMe support 1 Low Profile PCI-E x16 slot 1 SIOM card support	4 Nodes in 2U 24 DIMMs per node NVMe Support 2 M.2 SATA3 or NVMe support 2 Low -profile PCI-E X16 slot 1 SIOM card support	4 Nodes in 2U 24 DIMMs per node NVMe Support 2 M.2 SATA3 or NVMe support 2 Low -profile PCI-E X16 slot 1 SIOM card support
Serverboard	SUPER <sup>®</sup> X11DPT-B	SUPER <sup>®</sup> X11DPT-B	SUPER <sup>®</sup> X11DPT-B
Chipset	Intel® C621 chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
Expansion Slots	1 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card
Onboard Storage Controller	Broadcom 3108 SAS3 (12Gbps) RAID controller; RAID 0, 1, 5, 6, 10, 50, 60	Broadcom 3008 SAS3 (12Gbps) controller; IT mode	Broadcom 3008 SAS3 (12Gbps) controller; IT mode
Connectivity	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog
Drive Bays	4 Hot-swap 2.5 NVMe/SAS drive bays + 2 Hot-swap 2.5 SAS drive bays per node	4 Hot-swap 2.5 NVMe/SAS drive bays + 2 Hot-swap 2.5 SAS drive bays per node	3 Hot-swap 3.5 NVMe/SAS drive bays per node
Peripheral Bays	N/A	N/A	N/A
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
Cooling System	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty PWM fans with air shroud
Form Factor	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6 x 3.47 x 28.75 ) (9.76 x 24.65 x 45.28 )	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6 x 3.47 x 28.75 ) Package: 248 x 626 x 1150mm (9.76 x 24.65 x 45.28 )	2U (4-node) Rackmount; Enclosure: 447 x 88 x 765mm (17.6 x 3.47 x 30.11 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**X11 BigTwin**  
Quad DP Nodes, 24 Hybrid NVMe/SATA3 Drive Bays

**X11 BigTwin**  
Quad DP Nodes, 24 SATA Drive Bays



MODEL	SYS-2029BT-HNTR	SYS-2029BT-HTR
Processor Support	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s
Key Applications	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC
Outstanding Features	4 Nodes in 2U 24 DIMMs per node NVMe Support 1 M.2 SATA3 or NVMe support 2 Low-profile PCI-E X16 slot 1 SIOM card support	4 Nodes in 2U 24 DIMMs per node SATA 3.0 (6Gbps) support 2 Low-profile PCI-E slots 1 SIOM card support
Serverboard	SUPER <sup>®</sup> X11DPT-B	SUPER <sup>®</sup> X11DPT-B
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
Expansion Slots	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 X16 (LP) 1 SIOM card support Note: Must bundle with Network Card
Onboard Storage Controller	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel C621 SATA (6 Gbps) controller; RAID 0,1,5,10
Connectivity	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2400 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog
Drive Bays	4 Hot-swap 2.5 NVMe/SATA3 drive bays + 2 Hot-swap 2.5 SATA3 drive bays per node	6 Hot-swap 2.5 SATA drive bays per node
Peripheral Bays	N/A	N/A
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
Cooling System	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty PWM fans with air shroud
Form Factor	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6 x 3.47 x 28.75 ) Package: 248 x 626 x 1150mm (9.76 x 24.65 x 45.28 )	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6 x 3.47 x 28.75 ) (9.76 x 24.65 x 45.28 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**X11 BigTwin**  
Dual DP Nodes, 24 Hybrid SAS3/NVMe Drive Bays

**X11 BigTwin**  
Dual DP Nodes, 12 Hybrid SAS3/NVMe Drive Bays



MODEL	SYS-2029BT-DNCOR/DNR	SYS-6029BT-DNCOR
Processor Support	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s
Key Applications	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC
Outstanding Features	2 Nodes in 2U 24 DIMMs per node NVMe Support 2 M.2 SATA3 or NVMe support 3 PCI-E Add-on cards 1 SIOM card support	2 Nodes in 2U 24 DIMMs per node NVMe Support 2 M.2 SATA3 or NVMe support 3 PCI-E Add-on cards 1 SIOM card support
Serverboard	SUPER <sup>®</sup> X11DPT-B	SUPER <sup>®</sup> X11DPT-B
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
Expansion Slots	2 PCI-E 3.0 x8; 1 PCI-E 3.0 x16; 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 x8; 1 PCI-E 3.0 x16; 1 SIOM card support Note: Must bundle with Network Card
Onboard Storage Controller	-DNCOR: Broadcom® 3216 SAS3 (12 Gbps) controller; IT mode -DNR: NVMe	Broadcom 3008 SAS3 (12 Gbps) controller; IT mode
Connectivity	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
Drive Bays	-DNCOR: 4 Hot-swap 2.5 NVMe/SAS drive bays + 8 Hot-swap 2.5 SAS drive bays per node -DNR: 12 Hot-swap 2.5 NVMe drive bays per node	3 Hot-swap 3.5 NVMe/SAS drive bays + 3 Hot-swap 3.5 SAS drive bays per node
Peripheral Bays	N/A	N/A
Power Supply	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
Cooling System	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty PWM fans with air shroud
Form Factor	2U (2-node) Rackmount; Enclosure: 432 x 86 x 711mm (17.6 x 3.47 x 28.75 ) Package: 51 x 248(2 x 9.76 x 45.28 ) Gross Weight: 85lbs Net Weight: 54.5lbs	2U (2-node) Rackmount; Enclosure: 447 x 88 x 765mm (17.6 x 3.47 x 30.11 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**1U TwinPro**  
Cost Effective



**1U TwinPro**  
Cost Effective



**1U TwinPro**  
Cost Effective



MODEL	SYS-1029TP-DC0R	SYS-1029TP-DC1R	SYS-1029TP-DTR
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s; CPU TDP support Up to 140W	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s; CPU TDP support Up to 140W	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s; CPU TDP support Up to 140W
Key Applications	Mission-critical applications High Availability Storage Appliance Platform	Mission-critical applications High Availability Storage Appliance Platform	Mission-critical applications High Availability Storage Appliance Platform
Outstanding Features	1000W Titanium Level High-Efficiency Redundant Power Supplies 2 hot swappable nodes in 1U 1 SIOM card support 2x PCI-E 3.0 x16 Low-profile slot and 2 x M.2 slot Dual set of 4 hot-swap 2.5 SATA/SAS drive bays IPMI 2.0 + KVM with dedicated LAN	1000W Titanium Level High-Efficiency Redundant Power Supplies 2 hot swappable nodes in 1U 1 SIOM card support 2x PCI-E 3.0 x16 Low-profile slot and 2 x M.2 slot Dual set of 4 hot-swap 2.5 SATA/SAS drive bays IPMI 2.0 + KVM with dedicated LAN	1000W Titanium Level High-Efficiency Redundant Power Supplies 2 hot swappable nodes in 1U 1 SIOM card support 2x PCI-E 3.0 x16 Low-profile slot and 2 x M.2 slot Dual set of 4 hot-swap 2.5 SATA drive bays IPMI 2.0 + KVM with dedicated LAN
Serverboard	SUPER <sup>®</sup> X11DPT-PS	SUPER <sup>®</sup> X11DPT-PS	SUPER <sup>®</sup> X11DPT-PS
Chipset	Intel® C621 chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Dual set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.	Dual set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.	Dual set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.
Expansion Slots	Dual set of: 2x PCI-E 3.0 LP x16; 1x SIOM card support	Dual set of: 2x PCI-E 3.0 LP x16; 1x SIOM card support	Dual set of: 2x PCI-E 3.0 LP x16; 1x SIOM card support
Onboard Storage Controller	Dual set of Broadcom® 3008 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6,10,50 w/optional SuperCap	Dual set of Broadcom® 3108 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6,10,50 w/optional SuperCap	Dual set of Intel® C620 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Dual set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Dual set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Dual set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	1 VGA, 1 Aspeed AST2500 BMC;	1 VGA, 1 Aspeed AST2500 BMC;
Management	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctorfi, Watch Dog	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctorfi, Watch Dog	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctorfi, Watch Dog
Drive Bays	Dual set of 4x 2.5 hot-swap SATA/SAS drive bays	Dual set of 4x 2.5 hot-swap SATA/SAS drive bays	Dual set of 4x 2.5 hot-swap SATA drive bays
Peripheral Bays	N/A	N/A	N/A
Power Supply	1000W Redundant Titanium Level high-efficiency Power Supplies with I2C & PMBus	1000W Redundant Titanium Level high-efficiency Power Supplies with I2C & PMBus	1000W Redundant Titanium Level high-efficiency Power Supplies with I2C & PMBus
Cooling System	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control
Form Factor	1U Rackmount; Enclosure: 437 x 43 x 718mm (17.2 x 1.7 x 28.25 ) Package: 752 x 203 x 975mm (29.6 x 8 x 38.4 )	1U Rackmount; Enclosure: 437 x 43 x 718mm (17.2 x 1.7 x 28.25 ) Package: 752 x 203 x 975mm (29.6 x 8 x 38.4 )	1U Rackmount; Enclosure: 437 x 43 x 718mm (17.2 x 1.7 x 28.25 ) Package: 752 x 203 x 975mm (29.6 x 8 x 38.4 )

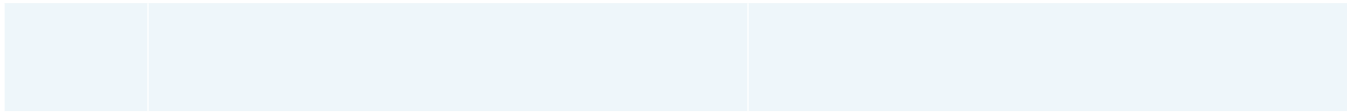
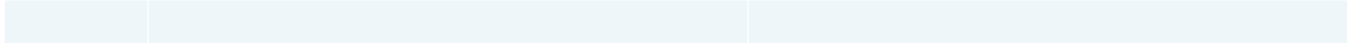
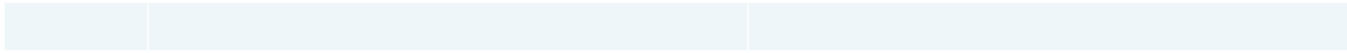
\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## X11 TwinPro<sup>2</sup><sup>™</sup>

Quad DP Nodes, 24x 2.5" Drive Bays

## X11 TwinPro<sup>2</sup><sup>™</sup>

Dual DP Nodes, 12x 3.5" Drive Bays





## 2 DP Nodes BigTwin™

2 hot swappable nodes in 2U, Redundant Titanium Level power supplies



Front View

Rear View

MODEL	SYS-2028BT-DNR+	SYS-2028BT-DNCOR+	SYS-6028BT-DNCOR+
<b>Processor Support</b>	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s BIOS version 2.0 or above is required	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s BIOS version 2.0 or above is required	Intel® Xeon® processor E5-2600 V3 Intel® Xeon® processor E5-2600 V4 with QPI up to 9.6GT/s BIOS version 2.0 or above is required
<b>Key Applications</b>	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC	Hyperscale and Hyperconverged Solutions Compute Intensive Application Enterprise Server Data Center HPC
<b>Outstanding Features</b>	2 M.2 SATA3 or NVMe support 1 SATA DOM support 12 NVMe support 24 DIMMs per node 1 SIOM card support 2 Node in 2U	2 M.2 SATA3 or NVMe support 1 SATA DOM support SAS3 and NVMe support Broadcomfi 3216 on board 24 DIMMs per node 2 FH PCI-E x8, 1 LP PCI-Ex16 1 SIOM card support 2 Nodes in 2U	2 M.2 SATA3 or NVMe support 1 SATA DOM support SAS3 and NVMe support Broadcomfi 3216 on board 24 DIMMs per node 2 FH PCI-E x8, 1 LP PCI-Ex16 1 SIOM card support 2 Node in 2U
<b>Serverboard</b>	SUPER <sup>®</sup> X10DRT-B+	SUPER <sup>®</sup> X10DRT-B+	SUPER <sup>®</sup> X10DRT-B+
<b>Chipset</b>	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS LRDIMM, 768GB ECC RDIMM 2400MHz, in 24 DIMM slots per Node
<b>Expansion Slots</b>	2 PCI-E 3.0 x8 (FH, HL), 1 PCI-E 3.0 x16 (LP, HL) 1SIOM card support Note: Must bundle with Network card	2 PCI-E 3.0 x8 (FH, HL), 1 PCI-E 3.0 x16 (LP, HL) 1SIOM card support Note: Must bundle with Network card	2 PCI-E 3.0 x8 (FH, HL), 1 PCI-E 3.0 x16 (LP, HL) 1SIOM card support Note: Must bundle with Network card
<b>Onboard Storage Controller</b>		Broadcomfi 3216 support RAID 0,1,10 per Node	Broadcomfi 3216 support RAID 0,1,10 per Node
<b>Connectivity</b>	SIOM Networking AOC Matrix	SIOM Networking AOC Matrix	SIOM Networking AOC Matrix
<b>VGA/Audio</b>	Aspeed AST2400 BMC	Aspeed AST2400 BMC	Aspeed AST2400 BMC
<b>Management</b>	Quad set of IPMI2.0+KVM with dedicated LAN, Intel Node Manger, SUM, SPM, SSM, SuperDoctor 5, Watchdog	Quad set of IPMI2.0+KVM with dedicated LAN, Intel Node Manger, SUM, SPM, SSM, SuperDoctor 5, Watchdog	Quad set of IPMI2.0+KVM with dedicated LAN, Intel Node Manger, SUM, SPM, SSM, SuperDoctor 5, Watchdog
<b>Drive Bays</b>	12 Hot-swap 2.5 NVMe drive bays		6 x 3.5 hot-swap SAS drive bays or 3 x NVMe + 3 x 3.5 SAS drive bays
<b>Peripheral Bays</b>			
<b>Power Supply</b>	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus
<b>Cooling System</b>	4x8cm heavy duty PWM fans with air shroud	4x8cm heavy duty PWM fans with air shroud, N/A	Redundant 2200W Titanium Level high-efficiency power supplies with 12C & PMbus
<b>Form Factor</b>	2U (2-node) Rackmount	2U (2-node) Rackmount	2U (2-node) Rackmount

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**1U TwinPro™**  
2 hot swappable nodes in 1U, Redundant Titanium Level power supplies



MODEL	SYS-1028TP-DTR	SYS-1028TP-DTTR	SYS-1028TP-DTFR
Processor Support	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP	Dual set of Dual Intel® Xeon® Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s, CPU support up to 145W TDP
Key Applications	Mission-critical applications High Availability Storage Appliance Platform	Mission-critical applications High Availability Storage Appliance Platform	Mission-critical applications High Availability Storage Appliance Platform
Outstanding Features	2 hot swappable nodes in 1U 1x PCI-E 3.0 x16 Low-profile slot and 1x 0 slot Intel® i350 Dual port GbE LAN 1000W Redundant Power Supplies	2 hot swappable nodes in 1U 1x PCI-E 3.0 x16 Low-profile slot and 1x 0 slot Intel® X540 Dual port 10GBase-T LAN 1000W Redundant Power Supplies	2 hot swappable nodes in 1U 1x PCI-E 3.0 x16 Low-profile slot and 1x 0 slot Single port FDR (56Gbps) IB w/ QSFP connector Intel® i350 Dual port GbE LAN 1000W Redundant Power Supplies
Serverboard	SUPER® X10DRT-P	SUPER® X10DRT-PT	SUPER® X10DRT-PIBF
Chipset	Intel® C612 chipset	Intel® C612 chipset	Intel® C612 chipset
System Memory (Max.)*	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Dual set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Dual set of low-profile PCI-E x16; 1x 0 slot	Dual set of low-profile PCI-E x16; 1x 0 slot	Dual set of low-profile PCI-E x16; 1x 0 slot
Onboard Storage Controller	Dual set of Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Dual set of Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Dual set of Intel® C612 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	Dual set of Dual LAN with Intel® i350 Gigabit Ethernet controller	Dual set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller;	Dual set of Dual LAN with Intel® i350 Gigabit Ethernet controller Dual set of Single FDR infiniband with Mellanox Connect-X3
VGA/Audio	Dual set of Aspeed AST2400 BMC	Dual set of Aspeed AST2400 BMC	Dual set of Aspeed AST2400 BMC
Management	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog	Dual set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® 5, Watchdog
Drive Bays	Dual set of 4x 2.5 hot-swap SATA drive bays	Dual set of 4x 2.5 hot-swap SATA drive bays	Dual set of 4x 2.5 hot-swap SATA drive bays
Peripheral Bays	1000W Redundant Titanium Level high-efficiency power supplies with I²C & PMBus	1000W Redundant Titanium Level high-efficiency power supplies with I²C & PMBus	1000W Redundant Titanium Level high-efficiency power supplies with I²C & PMBus
Power Supply	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control	Dual set of 3x heavy duty counter rotating fans with air shroud and optimal fan speed control
Cooling System	1U Rackmount	1U Rackmount	1U Rackmount
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

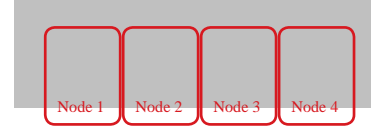






## 2U TwinPro<sup>2™</sup>

4 hot-swap nodes in 2U w/ 2.5" or 3.5" HDDs, Intel<sup>®</sup> Xeon<sup>®</sup> Processor E5-2600 v4 product family support



**SYS-2028TP-H Series**  
4 DP Nodes in 2U, 24x 2.5" SAS3/SATA drives

MODEL	SYS-2028TP-HC1R SYS-2028TP-HC1TR SYS-2028TP-HC1FR	SYS-2028TP-HC0R SYS-2028TP-HC0TR SYS-2028TP-HC0FR	SYS-2028TP-HTR SYS-2028TP-HTTR SYS-2028TP-HTFR
Processor Support	Quad set of Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	Compute Intensive Application Data Center Enterprise Server Financial Analysis HPC Mission-Critical	Compute Intensive Application Data Center Enterprise Server Financial Analysis HPC Mission-Critical	Compute Intensive Application Data Center Enterprise Server Financial Analysis HPC Mission-Critical
Outstanding Features	1 Low-profile PCI-E 3.0 x16 slot 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN Quad set of 6 hot-swap 2.5" SATA/SAS drive bays SAS 3.0, 40G Ethernet, FDR IB	1 Low-profile PCI-E 3.0 x16 slot + 0 slot 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN Quad set of 6 hot-swap 2.5" SATA/SAS drive bays SAS 3.0, 40G Ethernet, FDR IB	1 Low-profile PCI-E 3.0 x16 slot + 0 slot 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN Quad set of 6 hot-swap 2.5" SATA/SAS drive bays SAS 3.0, 40G Ethernet, FDR IB
Serverboard	-HC1R: SUPER <sup>®</sup> X10DRT-P -HC1TR: SUPER <sup>®</sup> X10DRT-PT -HC1FR: SUPER <sup>®</sup> X10DRT-PIBF	-HC0R: SUPER <sup>®</sup> X10DRT-P -HC0TR: SUPER <sup>®</sup> X10DRT-PT -HC0FR: SUPER <sup>®</sup> X10DRT-PIBF	-HTR: SUPER <sup>®</sup> X10DRT-P -HTTR: SUPER <sup>®</sup> X10DRT-PT -HTFR: SUPER <sup>®</sup> X10DRT-PIBF
Chipset	Intel <sup>®</sup> C612 Chipset	Intel <sup>®</sup> C612 Chipset	Intel <sup>®</sup> C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of low-profile PCI-E 3.0 x16	Quad set of low-profile PCI-E 3.0 x16; 1 x16 0 slot	Quad set of low-profile PCI-E 3.0 x16; 1 x16 0 slot
Onboard Storage Controller	Quad set of Broadcom <sup>®</sup> 3108 HW RAID SAS 3.0 (12Gbps); RAID 0,1,5,6,10,50 w/ optional SuperCap	Quad set of Broadcom <sup>®</sup> 3008 SW RAID 12Gbps SAS 3.0 controller; RAID 0,1,10	Quad set of Intel <sup>®</sup> C612 AHCI controller for 6 SATA3 (6Gbps); RAID 0,1,5,10
Connectivity	-HC1R: Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller; -HC1TR: Quad set of Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector; -HC1FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HC0R: Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller; -HC0TR: Quad set of Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector; -HC0FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HTR: Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller; -HTTR: Quad set of Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector; -HTFR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	Quad set of 6x 2.5" hot-swap SAS/SATA drive bays	Quad set of 6x 2.5" hot-swap SAS/SATA drive bays	Quad set of 6x 2.5" hot-swap SATA drive bays
Peripheral Bays	Redundant 2000W Titanium Level high-efficiency power supplies with P/C & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with P/C & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with P/C & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 724mm (17.25 x 3.47 x 28.5 )	2U Rackmount 438 x 88 x 724mm (17.25 x 3.47 x 28.5 )	2U Rackmount 438 x 88 x 724mm (17.25 x 3.47 x 28.5 )
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## 2U TwinPro<sup>2</sup>

4 hot-swap nodes in 2U w/ 2.5 or 3.5 HDDs, Intel<sup>®</sup> Xeon<sup>®</sup> Processor E5-2600 v4 product family support



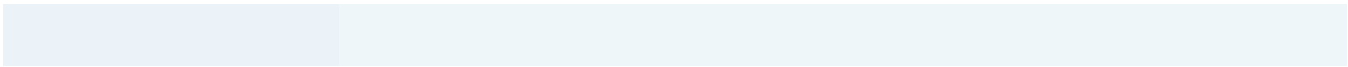
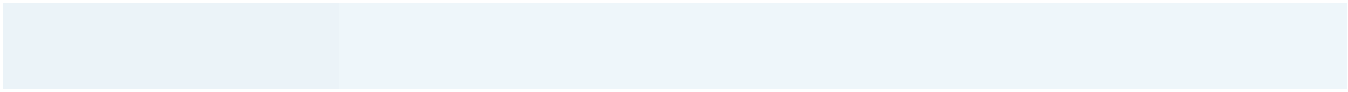
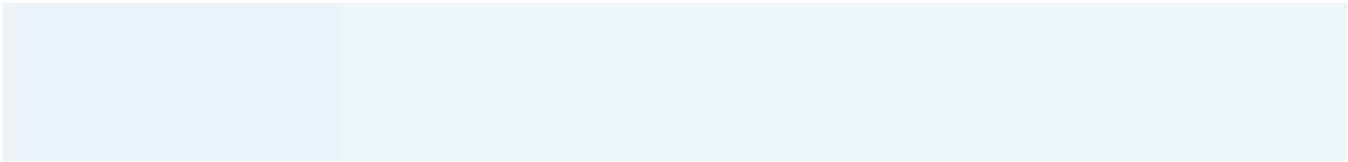
**SYS-6028TP-H Series**  
4 DP Nodes in 2U, 12x 3.5" SAS3/SATA3 drives

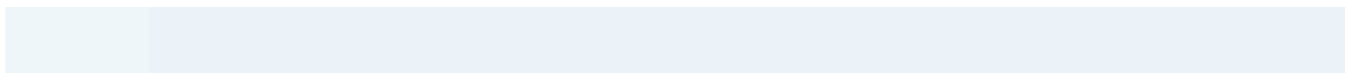
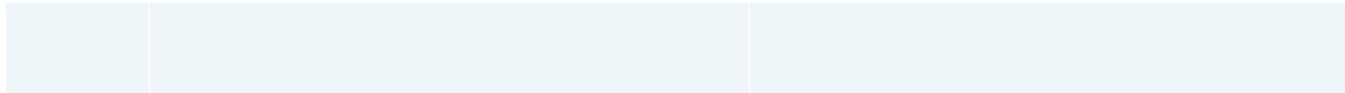
(Rear View)

MODEL	SYS-6028TP-HC1R SYS-6028TP-HC1TR SYS-6028TP-HC1FR	SYS-6028TP-HC0R SYS-6028TP-HC0TR SYS-6028TP-HC0FR	SYS-6028TP-HTR SYS-6028TP-HTTR SYS-6028TP-HTFR
Processor Support	Quad set of Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor E5-2600 v4/ v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
Key Applications	Compute Intensive Application Data Center Enterprise Server Financial Analysis HPC Mission-Critical	Compute Intensive Application Data Center Enterprise Server Financial Analysis HPC Mission-Critical	Compute Intensive Application Data Center Enterprise Server Financial Analysis HPC Mission-Critical
Outstanding Features	1 Low-profile PCI-E 3.0 x16 slot 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN Quad set of 3 hot-swap 3.5" SATA/SAS drive bays SAS3, 10G, 40G Ethernet, FDR	1 Low-profile PCI-E 3.0 x16 slot + 0 slot 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN Quad set of 3 hot-swap 3.5" SATA/SAS drive bays SAS3, 10G, 40G Ethernet, FDR	1 Low-profile PCI-E 3.0 x16 slot + 0 slot 4 hot swappable nodes in 2U IPMI 2.0 + KVM with dedicated LAN Quad set of 3 hot-swap 3.5" SATA/SAS drive bays SAS3, 10G, 40G Ethernet, FDR
Serverboard	-HC1R: SUPER <sup>®</sup> X10DRT-P -HC1TR: SUPER <sup>®</sup> X10DRT-PT -HC1FR: SUPER <sup>®</sup> X10DRT-PIBF	-HCOR: SUPER <sup>®</sup> X10DRT-P -HCOTR: SUPER <sup>®</sup> X10DRT-PT -HC0FR: SUPER <sup>®</sup> X10DRT-PIBF	-HTR: SUPER <sup>®</sup> X10DRT-P -HTTR: SUPER <sup>®</sup> X10DRT-PT -HTFR: SUPER <sup>®</sup> X10DRT-PIBF
Chipset	Intel <sup>®</sup> C612 Chipset	Intel <sup>®</sup> C612 Chipset	Intel <sup>®</sup> C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of low-profile PCI-E 3.0 x16	Quad set of low-profile PCI-E 3.0 x16; 1 x16 0 slot	Quad set of low-profile PCI-E 3.0 x16; 1 x16 0 slot
Onboard Storage Controller	Quad set of Broadcom <sup>®</sup> 3108 HW RAID SAS 3.0 (12Gbps); RAID 0,1,5 w/ optional SuperCap	Quad set of Broadcom <sup>®</sup> 3008 SW RAID 12Gbps SAS 3.0 controller; RAID 0,1	Quad set of Intel <sup>®</sup> C612 AHCI controller for 3 SATA3 (6Gbps); RAID 0,1,5,10
Connectivity	-HC1R: Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller; -HC1TR: Quad set of Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector; -HC1FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HCOR: Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller; -HCOTR: Quad set of Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector; -HC0FR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet	-HTR: Quad set of Dual LAN with Intel <sup>®</sup> i350 Gigabit Ethernet controller; -HTTR: Quad set of Dual 10Gb Ethernet LAN with Intel <sup>®</sup> X540 and 10GBase-T Connector; -HTFR: Quad set of FDR (Connect-X3) InfiniBand / 40G Ethernet
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	Quad set of 3x 3.5" hot-swap SAS/SATA drive bays	Quad set of 3x 3.5" hot-swap SAS/SATA drive bays	Quad set of 3x 3.5" hot-swap SATA drive bays
Peripheral Bays	Redundant 2000W Titanium Level high-efficiency power supplies with iPc & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iPc & PMBus	Redundant 2000W Titanium Level high-efficiency power supplies with iPc & PMBus
Power Supply	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud with optimal fan speed control
Cooling System	2U Rackmount 438 x 88 x 762mm (17.25 x 3.47 x 30 )	2U Rackmount 438 x 88 x 762mm (17.25 x 3.47 x 30 )	2U Rackmount 438 x 88 x 762mm (17.25 x 3.47 x 30 )
Form Factor	2U (4-node) Rackmount	2U (4-node) Rackmount	2U (4-node) Rackmount

\* Please check with your Supermicro sales representative and website for compatibility and configuration details







## 2U Twin

2 hot-swap nodes in 2U, New! Intel® Xeon® Processor E5-2600 v4 product family support



SYS-2028TR-H Series  
4 DP Nodes in 2U, 6x 2.5" HDD drives per Node



SYS-6028TR-H Series  
4 DP Nodes in 2U, 3x 3.5" HDD drives per Node

(Rear View)

MODEL	SYS-6028TR-HTR SYS-6028TR-HTFR	SYS-2028TR-H72R SYS-2028TR-H72FR SYS-2028TR-HTR SYS-2028TR-HTFR
<b>Processor Support</b>	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s; CPU TDP support Up to 145W
<b>Key Applications</b>	Data Center Web Server HPC Virtualization	Data Center Web Server HPC Virtualization
<b>Outstanding Features</b>	1600W Redundant Titanium Level high-efficiency power supplies 8 DIMM slots IPMI 2.0 + KVM with dedicated LAN 2x SATADOM 4 hot-swappable nodes in 2U	Broadcomfi 2208 1600W Redundant Titanium Level high-efficiency power supplies 8 DIMM slots IPMI 2.0 + KVM with dedicated LAN 2x SATADOM 4 hot-swappable nodes in 2U
<b>Serverboard</b>	-HTR: SUPER <sup>®</sup> X10DRT-H -HTFR: SUPER <sup>®</sup> X10DRT-HIBF	-H72R/HTFR: SUPER <sup>®</sup> X10DRT-H -H72FR/HTFR: SUPER <sup>®</sup> X10DRT-HIBF
<b>Chipset</b>	Intel® C612 Chipset	Intel® C612 Chipset
<b>System Memory (Max.)*</b>	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
<b>Expansion Slots</b>	Quad set of 1 PCI-E 3.0 x16 Low-profile	Quad set of 1 PCI-E 3.0 x16 Low-profile
<b>Onboard Storage Controller</b>	Quad set of Intel® C612 controller for 3 SATA3 (6 Gbps) ports; RAID 0,1	Quad set of SAS2 (6Gbps) via Broadcomfi 2208; HW RAID supports 0,1,5,6,10,50
<b>Connectivity</b>	-HTR: Quad set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -HTFR: Quad set of dual LAN with Mellanox ConnectX3 single port FDR	-H72R: Quad set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -H72FR: Quad set of dual LAN with Mellanox ConnectX3 single port FDR -HTR: Quad set of dual LAN with Intel® i350 dual Gigabit Ethernet LAN -HTFR: Quad set of dual LAN with Mellanox ConnectX3 single port FDR
<b>VGA/Audio</b>	Quad set of AST2400 VGA	Quad set of AST2400 VGA
<b>Management</b>	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
<b>Drive Bays</b>	Quad set of 3x 3.5 hot-swap SATA3 HDDs	Quad set of 6x 2.5 hot-swap SAS2 HDDs
<b>Peripheral Bays</b>	Redundant 1600W Titanium Level high-efficiency power supplies with I <sup>2</sup> C & PMBus	Redundant 1600W Titanium Level high-efficiency power supplies with I <sup>2</sup> C & PMBus
<b>Power Supply</b>	4x 80mm heavy duty fans with PWM fan speed control	4x 80mm heavy duty fans with PWM fan speed control
<b>Cooling System</b>	2U Rackmount 438 x 88 x 724mm (17.25 x 3.47 x 28.5 )	2U Rackmount 438 x 88 x 679mm (17.25 x 3.47 x 26.75 )
<b>Form Factor</b>	2U (4-node) Rackmount	2U (4-node) Rackmount

\* Please check with your Supermicro sales representative and website for compatibility and configuration details







**X11 FatTwin™**  
4U 8-Node, Rear I/O  
6x 2.5 Drive Bays per Node



**X11 FatTwin™**  
4U 4-Node, Rear I/O  
8 Hot-swap 3.5 Drive Bays per Node



MODEL	SYS-F619P2-RT/RTN/RCO/RC1	SYS-F629P3-RTB/RTBN/RCOB/RC1B
Processor Support	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s
Key Applications	Hyperscale and Hyperconverged Solutions Cloud Computing Cluster Node Data Center HPC cluster computer nodes	Hyperscale and Hyperconverged Solutions Cloud Computing Cluster Node Data Center
Outstanding Features	1 Low-profile PCI-E x16 slot support up to 28 cores 6x SATA or 4x SATA & 2 NVMe 2200W Redundant Titanium Level high-efficiency power supplies 1 SIOM PCI-E x16 slot	6x 3.5 SATA 3 & 2x NVMe U.2 support up to 28 cores 1200W Redundant Titanium Level high-efficiency power supplies 1 Low Profile PCI-E x16 slot 1 SIOM PCI-E x16 slot
Serverboard	-RT: SUPER <sup>®</sup> X11DPFR-S -RTN/RCO/RC1: X11DPFR-SN	-RTB: SUPER <sup>®</sup> X11DPFR-S -RTBN/RCOB/RC1B: SUPER <sup>®</sup> X11DPFR-SN
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	1.5TB Registered ECC, DDR4-2666MHz in 12 DIMM slots	1.5TB Registered ECC, DDR4-2666MHz in 12 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x16 (SIOM)	1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x16 (SIOM)
Onboard Storage Controller	-RT: intel C620 controller with 14 SATA3 ports -RTN: intel C621 controller with 14 SATA3 ports -RCO: Broadcom® 3008 12Gb/s SAS I/O Controller -RC1: Broadcom® SAS 3108 12Gb/s HW RAID	-RTB: intel C621 controller with 14 SATA3 ports & Onboard NVMe -RTBN: intel C621 controller with 14 SATA3 ports & Onboard NVMe -RCOB: Broadcom® 3008 12Gb/s SAS I/O Controller -RC1B: Broadcom® SAS 3108 12Gb/s HW RAID
Connectivity	Single LAN with N/A	Single LAN with N/A
VGA/Audio	1 VGA, Aspeed AST2500	1 VGA, Aspeed AST2500
Management	Intel Node Manager, IPMI2.0, SuperDoctor, Watchdog, Rear UID LED.	Intel Node Manager, IPMI2.0, SuperDoctor, Watchdog
Drive Bays	-RT: 6x 2.5 Hot Swap SATA 3 -RTN: 6x 2.5 Hot Swap SATA 3 or 4x 2.5 Hot Swap SATA 3 & 2 x Hot Swap NVMe U.2 -RCO: 6x 2.5 Hot Swap SAS 3 or 4x 2.5 Hot Swap SAS 3 & 2 x Hot Swap NVMe U.2 -RC1: 6x 2.5 Hot Swap SAS 3 HW RAID or 4x 2.5 Hot Swap SAS 3 HW RAID & 2 x Hot Swap NVMe U.2	-RTB: 8x 3.5 Hot Swap SATA 3 -RTBN: 8x 3.5 Hot Swap SATA 3 or 6x Hot Swap SATA 3 and 2x NVMe U.2 -RCOB: 8x 3.5 Hot Swap SAS 3 or 6x 3.5 Hot Swap SAS 3 & 2 x Hot Swap NVMe U.2 -RC1B: 8x 3.5 SAS 3 HW RAID or 6x 3.5 SAS 3 HW RAID & 2 x Hot Swap NVMe U.2
Peripheral Bays	N/A	N/A
Power Supply	2200W high-efficiency Titanium Level redundant power supply w/ PMBus	1200W high-efficiency Titanium Level redundant power supply w/ PMBus
Cooling System	3x 4cm 20k RPM middle fans per node	2x 8cm 14k RPM middle fans per node
Form Factor	Supersmicro Fat Twin 4U 8 node; Enclosure: 448 x 177 x 737mm (17.63 x 6.96 x 29 ) Package: 719 x 381 x 1077mm (28.3 x 15 x 42.4 ) Gross Weight: 200lbs (90.72kg) Net Weight: 150lbs (68.04kg)	Supersmicro Fat Twin 4U 4 node; Enclosure: 448 x 177 x 737mm (17.63 x 6.96 x 29 ) Package: 719 x 381 x 1077mm (28.3 x 15 x 42.4 ) Gross Weight: 200lbs (90.72kg) Net Weight: 150lbs (68.04kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**FatTwin™**  
8-Node Front I/O



MODEL	SYS-F618R2-FT SYS-F618R2-FC0	SYS-F618R3-FTL	SYS-F618R3-FT
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Cluster Node Compute Intensive Application Data Center	Cluster Node Compute Intensive Application Data Center	Cluster Node Compute Intensive Application Data Center
Outstanding Features	1 Low-profile PCI-E x16 slot 1620W Redundant <b>Platinum Level</b> high-efficiency power supplies 2 Gigabit Ethernet Ports IPMI 2.0 + KVM with dedicated LAN <b>SAS 3.0</b> (12 Gbps) support (-FC0)	1 Low-profile PCI-E x16 slot 2 Gigabit Ethernet Ports IPMI 2.0 + KVM with dedicated LAN RAID 0,1	1 Low-profile PCI-E x16 slot 2 Gigabit Ethernet Ports IPMI 2.0 + KVM with dedicated LAN RAID 0,1 SATA 3.0 (6Gbps) support
Serverboard	-FT: SUPER® X10DRFF -FC0: SUPER® X10DRFF-C	SUPER® X10DRFF	SUPER® X10DRFF
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set		

**FatTwin™**  
8-Node Front I/O, Serviceability & Efficiency!



Rear View

MODEL	SYS-F628R3-FT SYS-F628R3-FCO	SYS-F628R2-FCO
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Cluster Node Compute Intensive Application Data Center Email Server Mail Server	Cluster Node Data Center HPC Internet
Outstanding Features	1 Low-profile PCI-E x16 slot 1280W Platinum Level redundant high-efficiency power supplies 2 Gigabit Ethernet Ports 4x 3.5" SATA or SAS drives per node IPMI 2.0 + KVM with dedicated LAN Broadcomfi 3008 SAS 3.0 (12 Gbps) support (-FCO)	1 Low-profile PCI-E x16 slot 1280W Platinum Level redundant high-efficiency power supplies 2 Gigabit Ethernet Ports IPMI 2.0 + KVM with dedicated LAN Broadcomfi 3008 SAS 3.0 (12 Gbps) support (-FCO)
Serverboard	-FT: SUPER® X10DRFF -FCO: SUPER® X10DRFF-C	SUPER® X10DRFF-C
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots	Quad set of up to 1TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 8 DIMM slots
Expansion Slots	Quad set of 1 PCI-E 3.0 x16 (low-profile)	Quad set of 1 PCI-E 3.0 x16 (low-profile)
Onboard Storage Controller	-FT: Quad set of Intel® C612 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10; -FCO: Quad set of Broadcomfi 3008 controller for 4 SAS 3.0 (12Gbps) ports; RAID 0,1,10	Quad set of Broadcomfi 3008 controller for 8 SAS 3.0 (12Gbps) ports; RAID 0,1,10
Connectivity	Quad set of Dual Intel® i210 single port Gigabit Ethernet LAN	Quad set of Dual Intel® i210 single port Gigabit Ethernet LAN
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	-FT: Quad set of 4x 3.5" hot-swap SATA3 drive bays -FCO: Quad set of 4x 3.5" hot-swap SAS3 drive bays	Quad set of 8x 2.5" hot-swap SAS3 drive bays
Power Supply	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with I²C & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with I²C & PMBus
Cooling System	8x 80mm heavy duty hot-swap fans with air shroud & PWM fan speed control	8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**FatTwin™**  
4 DP Nodes, Front I/O, 16 DIMMs



MODEL	SYS-F628R2-FT+/FCO+/FTPT+/FCOPT+	SYS-F628R3-FCO+/FCOPT+	SYS-F628R3-FT+/FTPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Data Center Compute Intensive Application	Data Center Compute Intensive Application Cluster Node	Data Center Compute Intensive Application Cluster Node
Outstanding Features	2x PCI-E Gen 3.0 x8 (LP) 16 DIMM slots 1280W Platinum Level redundant high-efficiency power supplies IPMI 2.0 + KVM with dedicated LAN SAS3 (12 Gbps) support	2x PCI-E Gen 3.0 x8 (LP) RAID 0,1 Supports 16 DIMM DDR4 up to 2400MHz IPMI 2.0 + KVM with dedicated LAN 1280W Platinum Level redundant high-efficiency power supplies Broadcomfi 3008 controller	2x PCI-E Gen 3.0 x8 (LP) RAID 0,1 16 DIMM slots IPMI 2.0 + KVM with dedicated LAN 1280W Platinum Level redundant high-efficiency power supplies
Serverboard	-FT+: SUPER® X10DRFF-iG -FCO+: SUPER® X10DRFF-CG -FTPT+: SUPER® X10DRFF-iGT -FCOPT+: SUPER® X10DRFF-CGT	-FCO+: SUPER® X10DRFF-CG -FCOPT+: SUPER® X10DRFF-CGT	-FT+: SUPER® X10DRFF-iG -FTPT+: SUPER® X10DRFF-iGT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 2 PCI-E 3.0 x8 (low-profile)	Quad set of 2 PCI-E 3.0 x8 (low-profile)	Quad set of 2 PCI-E 3.0 x8 (low-profile)
Onboard Storage Controller	-FT+/-FTPT+: Quad set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10 -FCOT+/-FCOPT+: Quad set of Broadcomfi 3008 controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10	Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Broadcomfi 3008 SW controller for 8 SAS3 (12Gbps) ports; RAID 0,1,10	Quad set of Intel® C612 controller; RAID 0,1
Connectivity	-FT+/-FCO+: Quad set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+/-FCOPT+: Quad set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-FCO+: Quad set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FCOPT+: Quad set of Dual 10GBase-T LAN ports and 1x Dedicated IPMI port	-FT+: Quad set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+: Quad set of Dual 10GBase-T LAN ports and 1x Dedicated IPMI port
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 6x 2.5 SAS3/SATA3 drive bays	Quad set of 2x 3.5 SAS3/SATA3 drive bays	Quad set of 2x 3.5 SATA3 drive bays
Power Supply	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with iC & PMBus
Cooling System	Quad set of 8x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 8x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## FatTwin™ 8-Node 16 DIMMs, Front I/O



Rear View

MODEL	SYS-F618R2-FT+ SYS-F618R2-FTPT+	SYS-F618R3-FT+ SYS-F618R3-FTPT+
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Data Center HPC cluster computer nodes Compute Intensive Application	Data Center HPC cluster computer nodes Compute Intensive Application Cluster Node
Outstanding Features	1x8 and 1 x4 PCI-E slots 4x 2.5" HDD per node 16 DIMM slots IPMI 2.0 + KVM with dedicated LAN RAID 0,1 support 2000W Titanium Level redundant high-efficiency power supplies	1 low profile PCI-E x16 slot 2x 3.5" HDD per node 2 Gigabit Ethernet Ports IPMI 2.0 + KVM with dedicated LAN RAID 0,1 support 2000W Titanium Level redundant high-efficiency power supplies
Serverboard	-FT+: SUPER● <sup>®</sup> X10DRFF-iG -FTPT+: SUPER● <sup>®</sup> X10DRFF-iTG	-FT+: SUPER● <sup>®</sup> X10DRFF-iG -FTPT+: SUPER● <sup>®</sup> X10DRFF-iTG
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x8 (low-profile) and 1 PCI-E 2.0 x4 or 2 PCI-E 3.0 x8 (optional)	Octal set of 1 PCI-E 3.0 x8, 1 PCI-E 2.0 x4, or 2 PCI-E 3.0 x8 (optional)
Onboard Storage Controller	Octal set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1
Connectivity	-FT+: Octal set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+: Octal set of Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-FT+: Octal set of Dual 1GbE LAN ports and 1x Dedicated IPMI port -FTPT+: Octal set of Dual 10GBase-T LAN ports, and 1x Dedicated IPMI port
VGA/Audio	Octal set of AST2400 VGA	Octal set of AST2400 VGA
Management	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	Octal set of 4x 2.5" SATA3 fixed drive bays	Octal set of 2x 3.5" SATA3 fixed drive bays
Power Supply	4x Redundant 2000W Titanium Level (96%+) Digital power supplies with I <sup>2</sup> C & PMBus	4x Redundant 2000W Titanium Level (96%+) Digital power supplies with I <sup>2</sup> C & PMBus
Cooling System	8x 80mm heavy duty fans with air shroud & PWM fan speed control	8x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





## FatTwin™ 8-Node Rear I/O, 6x 2.5 HDD per Node



Rear View

MODEL	SYS-F618R2-RTN+ SYS-F618R2-RTPTN+	SYS-F618R2-RT+ SYS-F618R2-RTPT+	SYS-F618R2-RCO+ SYS-F618R2-RCOPT+
Processor Support	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Octal set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Cloud and Virtualization Cloud Computing Cluster Node Data Center HPC cluster computer nodes	Cloud and Virtualization Cloud Computing Cluster Node Data Center HPC cluster computer nodes	Cloud and Virtualization Cloud Computing Cluster Node Data Center HPC cluster computer nodes
Outstanding Features	1 Low-profile PCI-E x16 slot 145W CPU support 16 DIMM slots 2000W Redundant Titanium Level (96%+) high-efficiency power supplies 2x 1G or 10G Ethernet NVMe Support	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 1620W Redundant Platinum Level high-efficiency power supplies IPMI 2.0 + KVM with dedicated LAN 16 DIMM slots 6x 2.5 hot-swap SATA3 drive bays per node	145W CPU support Supports 16 DIMM DDR4 up to 2400MHz 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies 6 x 2.5 Hot-Swap SAS/SATA drives (Per Node) Optional NVMe support Broadcomfi 3008 controller onboard
Serverboard	-RTN+: SUPER® X10DRFR-N -RTPTN+: SUPER® X10DRFR-NT	-RT+: SUPER® X10DRFR -RTPT+: SUPER® X10DRFR-NT	-RCO+: SUPER® X10DRFR-N -RCOPT+: SUPER® X10DRFR-NT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Octal set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Octal set of 1 PCI-E 3.0 x16 (LP) and 1 PCI-E 3.0 x8 (MicroLP)	Octal set of 1 PCI-E 3.0 x16 (LP) and 1 PCI-E 3.0 x8 (MicroLP)	Octal set of 1 PCI-E 3.0 x16 (LP) and 1 PCI-E 3.0 x8 (MicroLP)
Onboard Storage Controller	Octal set of Intel® C612 controller for 10 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10	Octal set of Broadcomfi 3008 controller for 6 SAS 3.0 (12Gbps) ports; RAID 0,1,10;
Connectivity	-RTN+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RTPTN+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-RT+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RTPT+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-RCO+: Octal set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RCOPT+: Octal set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	Octal set of AST2400 VGA	Octal set of AST2400 VGA	Octal set of AST2400 VGA
Management	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Octal set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Octal set of 6x 2.5" hot-swap SATA3 drive bays; or, 4x SATA3 + 2x NVMe	Octal set of 6x 2.5" hot-swap SATA3 drive bays	Octal set of 6x SAS3/SATA3 or 4x SAS3/SATA3 + 2x NVMe optional
Power Supply	4x Redundant 2000W Titanium Level (96%+) power supplies with PC & PMBus	4x Redundant 1620W Platinum Level (94%+) power supplies with PC & PMBus	4x Redundant 2000W Titanium Level (96%+) power supplies with PC & PMBus
Cooling System	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control	Octal set of 3x 40mm counter-rotating fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





**FatTwin™**  
4-Node Rear I/O  
8 Hot-swap 3.5" HDDs per 1U



Rear View

MODEL	SYS-F628R3-RTB+ SYS-F628R3-RTBPT+ SYS-F628R3-RTBPTN+ SYS-F628R3-RTBN+	SYS-F628R3-RCOB+ SYS-F628R3-RC1B+ SYS-F628R3-RCOBPT+ SYS-F628R3-RC1BPT+	SYS-F628R3-R72B+ SYS-F628R3-R72BPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Cloud Computing Cluster Node Compute Intensive Storage Environments Corporate Database Data Center Database Applications Server Appliance Virtualization Server Web/Collocation Services	Cloud Computing Cluster Node Compute Intensive Storage Environments Corporate Database Data Center Database Applications Server Appliance Virtualization Server Web/Collocation Services	Cloud Computing Cluster Node Compute Intensive Storage Environments Corporate Database Data Center Database Applications Server Appliance Virtualization Server Web/Collocation Services
Outstanding Features	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 145W CPU support 16 DIMM slots 8 Hot-swap 3.5" SATA/SAS drive bays IPMI 2.0 management with dedicated LAN NVMe Support	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 145W CPU support 2 Gigabit Ethernet Ports 8 Hot-swap 3.5" SATA/SAS drive bays IPMI 2.0 management with dedicated LAN Broadcomfi 3108 controller (-RC1B+/-RC1BPT+) Broadcomfi 3008 controller (-RCOB+/-RCOBPT+)	1 Low-profile PCI-E x16 & 1 MicroLP PCI-E x8 slots 145W CPU support 16 DIMM slots 8 Hot-swap 3.5" SATA/SAS drive bays IPMI 2.0 management with dedicated LAN Broadcomfi 2208 controller for 8 SAS2 hot-swappable drives
Serverboard	-RTB+: SUPER® X10DRFR -RTBPT+: SUPER® X10DRFR-NT -RTBPTN+: SUPER® X10DRFR-NT -RTBN+: SUPER® X10DRFR-N	-RCOB+: SUPER® X10DRFR-N -RC1B+: SUPER® X10DRFR-N -RCOBPT+: SUPER® X10DRFR-NT -RC1BPT+: SUPER® X10DRFR-NT	-R72B+: SUPER® X10DRFR -R72BPT+: SUPER® X10DRFR-NT
Chipset	Intel® C612 Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 1 PCI-E 3.0 x16 (low-profile) and 1 PCI-E 3.0 x8 (Micro LP)	Quad set of 1 PCI-E 3.0 x16 (low-profile) and 1 Micro LP PCI-E 3.0 x8	Quad set of 1 PCI-E 3.0 x16 (low-profile) and 1 Micro LP PCI-E 3.0 x8
Onboard Storage Controller	Quad set of Intel® C612 controller for 8 SATA3 or 6 SATA3 and 2 NVMe	Quad set of 8 SAS3 (12Gbps) ports; or 6 SAS3 + 2 NVMe SSDs; SAS3 support via Broadcomfi 3108/3008; RAID 0,1,5,6,10,50,60	Quad set of Broadcomfi 2208 controller for 8 SAS2 (6Gbps) ports; RAID 0,1,5,6,10,50,60
Connectivity	-RTB+/RTBN+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RTBPT+/-RTBPTN+: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-RCOB+/-RC1B+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -RCOBPT+/-RC1BPT+: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-R72B+: Quad set of Dual LAN ports with Intel® i350 Gigabit Ethernet controller -R72BPT+: Quad set of Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 8x 3.5" hot-swap SATA3 drive bays; or 6x SATA + 2x NVMe	Quad set of 8x 3.5" hot-swap SAS3/SATA drive bays; or 6x SAS/SATA + 2x NVMe optional	Quad set of 8x 3.5" hot-swap SAS2/SATA drive bays
Power Supply	Quad set of Redundant 1280W Platinum Level (95%+) Digital power supplies with P°C & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with P°C & PMBus	4x Redundant 1280W Platinum Level (95%+) Digital power supplies with P°C & PMBus
Cooling System	Quad set of 2x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 2x 80mm heavy duty fans with air shroud & PWM fan speed control	Quad set of 2x 80mm heavy duty fans with air shroud & PWM fan speed control
Form Factor	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )	4U Rackmount 448 x 177 x 737mm (17.63 x 6.96 x 29 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## FatTwin™

4 DP Nodes, 3 GPU/Coprocessor per Node, Front I/O, 16 DIMMs



MODEL	SYS-F628G2-FT+ SYS-F628G2-FCO+ SYS-F628G2-FTPT+ SYS-F628G2-FCOPT+	SYS-F628G3-FT+ SYS-F628G3-FCO+ SYS-F628G3-FTPT+ SYS-F628G3-FCOPT+
Processor Support	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Quad set of Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	3D Rendering CAD/CAM/CAE Compute Intensive Application Digital Content Creation GPU server High-performance computing	3D Rendering CAD/CAM/CAE Compute Intensive Application Digital Content Creation GPU server High-performance computing
Outstanding Features	Up to 3 GPU/Coprocessor per node* (*2x K80 per node) 145W CPU support IPMI 2.0 + KVM with dedicated LAN Up to 2 add-on cards SAS3 (12Gbps) support	Up to 3 GPU/Coprocessor per node* (*2x K80 per node) 145W CPU support IPMI 2.0 + KVM with dedicated LAN Up to 2 add-on cards SAS3 (12Gbps) support
Serverboard	-FT+: SUPER <sup>®</sup> X10DRFF-iG -FCO+: SUPER <sup>®</sup> X10DRFF-CG -FTPT+: SUPER <sup>®</sup> X10DRFF-iTG -FCOPT+: SUPER <sup>®</sup> X10DRFF-CTG	-FT+: SUPER <sup>®</sup> X10DRFF-iG -FCO+: SUPER <sup>®</sup> X10DRFF-CG -FTPT+: SUPER <sup>®</sup> X10DRFF-iTG -FCOPT+: SUPER <sup>®</sup> X10DRFF-CTG
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Quad set of up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	Quad set of 3 PCI-E 3.0 x16 FH/FL Double Width + 2 PCI-E 3.0 x8 LP	Quad set of 3 PCI-E 3.0 x16 FH/FL Double Width + 2 PCI-E 3.0 x8 LP
Onboard Storage Controller	-FT+/-FTPT+: Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; -FCO+/-FCOPT+: Quad set of Broadcom® 3008 SW controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10	-FT+/-FTPT+: Quad set of Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; -FCO+/-FCOPT+: Quad set of Broadcom® 3008 SW controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10
Connectivity	-FT+/-FCO+: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet Controller; -FTPT+/-FCOPT+: Quad set of Dual 10GBase-T with Intel® X540 10GbE Controller	-FT+/-FCO+: Quad set of Dual LAN with Intel® i350 Gigabit Ethernet Controller; -FTPT+/-FCOPT+: Quad set of Dual LAN with Intel® X540 10GbE Ethernet Controller
VGA/Audio	Quad set of AST2400 VGA	Quad set of AST2400 VGA
Management	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	Quad set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	Quad set of 6x 2.5 hot-swap SATA3/SAS3 drive bays	Quad set of 2x 3.5 hot-swap SATA3/SAS3 drive bays
Power Supply	4x Redundant 2000W Titanium Level power supplies with I <sup>2</sup> C & PMBus	4x Redundant 2000W Titanium Level power supplies with I <sup>2</sup> C & PMBus
Cooling System	8x 80mm heavy duty fans with air shroud and PWM fan speed control and additional fans available	8x 80mm heavy duty fans with air shroud and PWM fan speed control and additional fans available
Form Factor	4U Rackmount: 448 x 177 x 889mm (17.63 x 6.96 x 35 )	4U Rackmount : 448 x 177 x 889mm (17.63 x 6.96 x 35 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 Data Center Optimized

2.5 Short Depth

## X11 Data Center Optimized

3.5 Short Depth



MODEL	SYS-1029P-MT SYS-1029P-MTR	SYS-6019P-MT SYS-6019P-MTR
Processor Support	Intel Xeon Skylake-SP up to 140W	Intel Xeon Skylake-SP up to 140W
Key Applications	Data Center Web Server Enterprise Server Managed Hosting	Data Center Web Server Enterprise Server Managed Hosting
Outstanding Features	Short-Depth 2x 1GbE port, 1x dedicated IPMI port IPMI 2.0 + KVM with dedicated LAN	2x 1GbE LAN Marvell 88E1512 PHY 500W Single Power Supply, 80PLUS Platinum Short Depth 2x 1GbE LAN Marvell 88E1512 PHY IPMI 2.0 + KVM with dedicated LAN
Serverboard	SUPER <sup>®</sup> X11DPL-i	SUPER <sup>®</sup> X11DPL-i
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	8 DIMM, 1TB Reg. ECC DDR4 up to 2666 MHz	1TB Registered ECC, DDR4-2666MHz in 8 DIMM slots
Expansion Slots	1 PCI-E 3.0x8 (FHHL)	1 PCI-E 3.0 x8 (FHHL)
Onboard Storage Controller	SATA3 (6Gbps); RAID 0, 1, 5, 10	SATA3 (6Gbps); RAID 0, 1, 5, 10
Connectivity	2x 1GbE LAN Marvell 88E1512 PHY	2x 1GbE LAN Marvell 88E1512 PHY
VGA/Audio	AST2500 VGA	AST2500 VGA
Management	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
Drive Bays	8 Hot-Swap 2.5 SATA3 6Gb/s	4 Hot-Swap 3.5 SATA3 6Gb/s
Peripheral Bays	-MT: Optional PCI M.2 NVMe drive 1x Slim DVD-ROM drive (optional) -MTR: 1x Slim DVD-ROM drive (optional) Optional PCI M.2 NVMe drive	Optional PCI M.2 NVMe drive
Power Supply	-MT: 600W Single Power Supply, 80PLUS Platinum -MTR: 600W Redundant Power Supply, 80PLUS Platinum	-MT: 500W Single Power Supply, 80PLUS Platinum -MTR: 600W Redundant Power Supply, 80PLUS Platinum
Cooling System	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan
Form Factor	1U 17.2 (437mm) x 1.7 (43mm) x 19.98 (507mm)	1U Rackmount 437 x 43 x 508mm (17.2 x 1.7 x 19.98 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**X11 Mainstream**  
UP Server with 4x 3.5 Drive Bays

**X11 Mainstream**  
UP Server with Redundant Power and BBP<sup>®</sup>

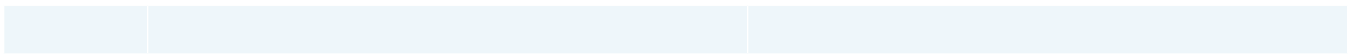
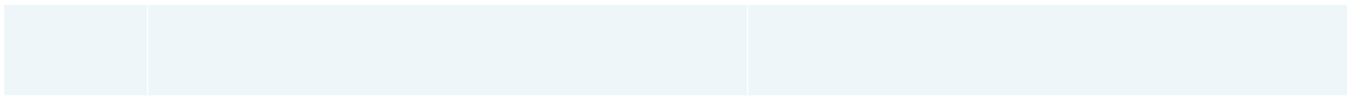
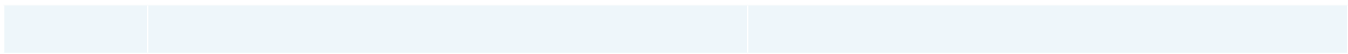


MODEL	SYS-5019P-MT	SYS-5019P-MTR
Processor Support	Intel® Xeon® Scalable Processors	Intel® Xeon® processor scalable family with UPI up to 10.4 GT/s
Key Applications	Web Hosting, VM Application and data serving Database Applications	Web Hosting, VM Application and data serving Database Applications Mission-critical applications
Outstanding Features	1 TB LRDIMM 3DS M.2 2280, 22110 SUPPORT Quick Release Rails	1 TB LRDIMM 3DS M.2 2280, 22110 SUPPORT Quick Release Rails
Serverboard	SUPER <sup>®</sup> X11SPI-TF	SUPER <sup>®</sup> X11SPI-TF
Chipset	C622	C622
System Memory (Max.)*	6-CH memory, 8-DIMM with AP support, 8x DDR4 ECC at 2666MHz, Up to 256GB RDIMM, 512GB LRDIMM, 1TB LRDIMM 3DS	6-CH memory, 8-DIMM with AP support, 8x DDR4 ECC at 2666MHz, Up to 256GB RDIMM, 512GB LRDIMM, 1TB LRDIMM 3DS
Expansion Slots	1 x16 PCI-E 3.0 slot	1 x16 PCI-E 3.0 slot
Onboard Storage Controller	RAID 0/1/10	RAID 0/1/10
Connectivity	4x USB 3.0 (front/rear), USB 2.0, VGA, Serial PORT	4x USB 3.0 (front/rear), USB 2.0, VGA, Serial PORT
VGA/Audio	Built-in Aspeed VGA from BMC	Built-in Aspeed VGA from BMC
Management	1x dedicated IPMI port via Aspeed BMC onboard	1x dedicated IPMI port via Aspeed BMC onboard
Drive Bays	4x 3.5 Hot-swap SATA3 bays w/ RAID	4x 3.5 Hot-swap SATA3 bays w/ RAID
Peripheral Bays	Optional slim optical device bay, optional FDD/USB bay	Optional slim optical device bay, optional FDD/USB bay
Power Supply	350W Platinum High-Efficiency Power Supply	400W Platinum Redundant High-Efficiency Power Supply
Cooling System	4x 40mm mid-fan	4x 40mm mid-fan
Form Factor	1U rackmount, 1.7 H x 17.2 W x 19.8 D (43mm H x 437mm W x 503mm D) ; Enclosure: 437 x 43 x 503mm (17.2 x 1.7 x 19.8 ) Package: 610 x 216 x 749mm (24 x 8.5 x 29.5 )	1U rackmount, 1.7 H x 17.2 W x 19.8 D (43mm H x 437mm W x 503mm D) ; Enclosure: 437 x 43 x 503mm (17.2 x 1.7 x 19.8 ) Package: 610 x 216 x 749mm (24 x 8.5 x 29.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**X11 UP W10**  
1U Flexible I/O, Storage Array

**X11 UP W10**  
1U Flexible I/O, Flexible Array



## X11 Mainstream

8x 2.5 SAS3 Drive Bays

## X11 Mainstream

8x 3.5 SATA3 Drive Bays



MODEL	SYS-2029P-C1R/C1RT	SYS-6029P-TR/TRT
Processor Support	Dual Socket P (LGA 3647), Intelfi Xeonfi processor Scalable Family; UPI up to 10.4GT/s, Support CPU TDP 45-205W	Dual Socket P (LGA 3647), Intelfi Xeonfi processor Scalable Family; UPI up to 10.4GT/s, Support CPU TDP 45-205W
Key Applications	Application and data serving Big Data Analytics Business Critical Applications Compute Intensive Application Compute Intensive Storage Environments Connectivity/Storage Computer Nodes	Cloud and Virtualization needs Compute Intensive Application Compute Intensive Storage Environments Database Processing & Storage High Availability Storage Appliance Platform Hosting & Application delivery
Outstanding Features	optional support 2x NVMe fixed drives 1x M.2 support by default 8x 2.5 SAS & 2x SATA3 2.5 HDD Bay 2 SATA DOM support with embedded power 16 DIMM sockets 1200W Redundant Power, Titanium Level (96% typical efficiency) Independent power & cooling control	optional support 2x NVMe fixed drives 16 DIMM sockets 2 SATA DOM support with embedded power 1000W Titanium Level high-efficiency power supply 1x M.2 Support by default -TR: 2 Gigabit Ethernet Ports -TRT: 2x 10GBase-T Ports
Serverboard	-C1R: SUPER <sup>®</sup> X11DPI-N -C1RT: SUPER <sup>®</sup> X11DPI-NT	-TR: SUPER <sup>®</sup> X11DPI-N -TRT: SUPER <sup>®</sup> X11DPI-NT
Chipset	-C1R: Intelfi C621 chipset -C1RT: Intelfi C622 chipset	-TR: Intelfi C621 chipset -TRT: Intelfi C622 chipset
System Memory (Max.)*	Up to 2TB ECC RDIMM/LRDIMM, DDR4-2666MHz in 16 DIMM slots	Up to 2TB ECC RDIMM/LRDIMM, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	Supports total 5x low profile add-on cards in 4x PCI-E 3.0 x16, 1x PCI-E 3.0 x8 slots	Supports total 6x low profile add-on cards in 4x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 slots
Onboard Storage Controller	RAID 0,1,5,10; Broadcomfi 3108 HW with 2G Cache controller (AOC-S3108L-H8iR-16DD) for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60; -C1R: Intelfi C621 controller for 10 SATA3 (6 Gbps) ports; -C1RT: Intelfi C622 controller for 10 SATA3 (6 Gbps) ports	-TR: Intelfi C621 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10 -TRT: Intelfi C622 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	-C1R: Dual LAN RJ45 ports with Intelfi X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port -C1RT: Dual LAN RJ45 ports with Intelfi X722 10G base-T Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port	-TR: Dual LAN RJ45 ports with Intelfi X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port -TRT: Dual LAN RJ45 ports with Intelfi X722 10G Based-T Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port 2x 10GBased-T ports
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	Aspeed AST2500
Management	Intelfi Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog;	Intelfi Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog;
Drive Bays	8x 2.5 12Gbps SAS3 and 8x 2.5 6Gbps SATA3, total 16 hot-swap drives	8x 3.5 hot-swap SATA3 drive bay
Peripheral Bays	USB Support: Rear: 2x3.0 + 2x2.0, Front: 2x2.0, and 1x Type A; optional DVD-ROM drive: support either 1x slim or 1x 5.25 DVD drive.	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x slim DVD-ROM drive bay and 2x NVMe fixed drives
Power Supply	2x Redundant 1200W Redundant Power, Titanium Level (96% typical efficiency)	2x Redundant 1000W Redundant Power Supply Titanium Level (96% typical efficiency)
Cooling System	3x 80mm heavy duty fans with PWM fan speed and cooling zone control; Adjustable Air Shroud with Enhanced cooling design	3x 80mm heavy duty fans with PWM fan speed control, Adjustable Air Shroud with Enhanced cooling design
Form Factor	System Gross Weight: 28.8KG/63Lbs; System Net Weight: 17.4KG/38Lbs; System Dimension: 3.5 (89mm) x 17.2 (437mm) x 24.8 (630mm); Package Dimension: 26.5 (W) x 10.5 (H) x 38 (L); Enclosure: 437 x 89 x 630mm (17.2 x 3.5 x 24.8 ) Package: 737 x 279 x 983mm (29 x 11 x 38.7 )	2U Rackmount Standard Barebone Mainstream Server ; Enclosure: 437 x 89 x 648mm (17.2 x 3.5 x 25.5 ) Package: 678 x 290 x 876mm (26.7 x 11.4 x 34.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**X11 Max I/O**  
2U 11 PCI-E Slots

**X11 Max I/O**  
3U 11 PCI-E Slots



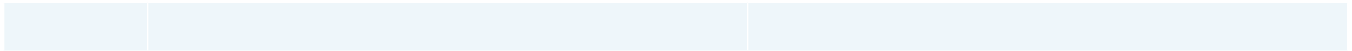
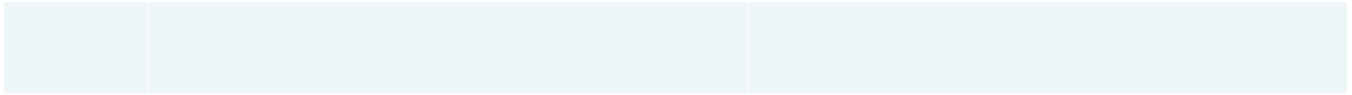
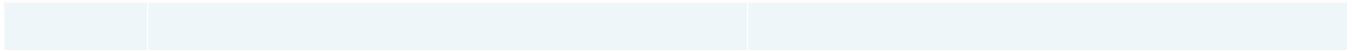
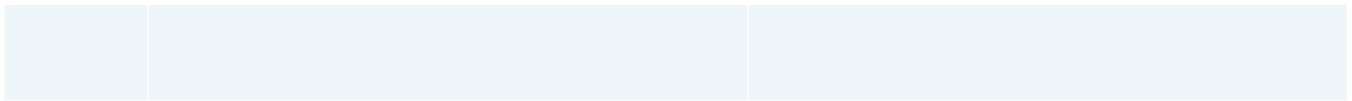
MODEL	SYS-2029P-TXRT	SYS-6039P-TXRT
Processor Support	Intel® Xeon® Processor Scalable Family - Skylake	Intel® Xeon® Processor Scalable Family - Skylake
Key Applications	Industrial Server Networking Telephony Surveillance DCR GPU Pass-through VM server Flash Array Server Head-node controller	Industrial Server Surveillance DCR Flash Array Server Data Acquisitions Video and Music Production
Outstanding Features	SKL (up to 205W), 3 UPI designed for up to 10.4 GT/s[nid:9987] 11 Low-profile PCI-E slots 16x Hot-swap 2.5" HDD Bays 1x PCI-E 3.0 x4 M.2 Slot Redundant (1+1) 1KW 1000 W Titanium level 96+%	Up to 11 PCI-E 3.0 slots 8x Hot-swap 3.5" HDD Bays and 2x 5.25" Drive Bays 2 SATA DOMs Support with Embedded Power Redundant (1+1) 980W Platinum level 94+%
Serverboard	SUPER <sup>®</sup> X11DPX-T	SUPER <sup>®</sup> X11DPX-T
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	Up to 2TB Registered ECC, DDR4-2666MHz in 16 DIMM slots	Up to 2TB Registered ECC, DDR4-2666MHz in 16 DIMM slots
Expansion Slots	11 Low-profile PCI-E slots 2 PCI-E 3.0 x16 Slots 8 PCI-E 3.0 x8 Slots (6x open end slots, 2x PCI-E x16 slots by MUX) 1 PCI-E 3.0 x4 in x8 slot	2 PCI-E 3.0 x16 Slots 8 PCI-E 3.0 x8 Slots (6x open slot, 2 x16 slots support by MUX) 1 PCI-E 3.0 x4 in x8 slot
Onboard Storage Controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 SATA3 (6Gb/s) controller
Connectivity	Dual 10G baseT LAN(X550-AT2)	Dual 10G baseT LAN(X550-AT2)
VGA/Audio	1 VGA, Aspeed AST2500	1 VGA, Aspeed AST2500
Management	Intel® Node Manager; IPMI2.0	Intel® Node Manager IPMI2.0 KVM with dedicated LAN SPM SUM SuperDoctorfi 5
Drive Bays	16x 2.5" SATA/ SAS Hot Swap HDD Bay	8x 3.5" hot-swap and 2x 5.25" drive bay
Peripheral Bays	1x slim DVD-ROM drive bay, 1x FDD bay, 1x standard 5.25" drive bay	1x slim DVD-ROM drive bay, 1x FDD bay, 2x standard 5.25" drive bay
Power Supply	Redundant 2 Qty. PWS-1K05A-1R	Redundant 2 Qty. PWS-982P-1R
Cooling System	4x middle fans	3x middle fans & 1x rear exhaust fan
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 650mm (17.2" x 3.5" x 25.6") Package: 686 x 376 x 947mm (27" x 14.8" x 37.3")	3U Chassis; Enclosure: 437 x 132 x 648mm (17.2" x 5.2" x 25.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## Mainstream UP

## Mainstream UP







## Mainstream UP

## Mainstream UP



MODEL	SYS-5019S-MT	SYS-1019S-MCOT
Processor Support	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported	Intel® Xeon® processor E3-1200 v6/v5, 6th Gen. Intel® Core i3 processor, Intel® Celeron® processor, Intel® Pentium® processor product families, Socket H4 (LGA 1151) supported
Key Applications	Storage HN, VM, Hosting Server Compact File Server	Storage HN, VM, Hosting Server Compact File Server
Outstanding Features	2x 10G Base-T LAN ports Intel® Node Management Up to 4x hot-swap 3.5 SATA3 drives Optional slim optical drive or fixed internal 1x PCI-E add-on card slot Front USB 3.0 ports Quick Release Rails M.2 PCI-E x4 support 2260	Quick Release Rails Intel Node Management
Serverboard	SUPER® X11SSH-TF	SUPER® X11SSH-CTF
Chipset	Intel® C236 Express Chipset	Intel® C236 Express chipset
System Memory (Max.)*	Up to 4x ECC UDIMM slots, up to 64GB DDR4-2133MHz	Up to 4x ECC/non-ECC UDIMM slots, up to 64GB DDR4-2400MHz
Expansion Slots	1x PCI-E 3.0 x8 (in x16) add-on card slot	1x PCI-E 3.0 x8 (in x16) add-on card slot
Onboard Storage Controller	Intel® C236 Express Chipset	Intel® C236 Express chipset Avago/Broadcom 3008 SAS3 built-in
Connectivity	2x USB 2.0, USB 3.0(front/rear), VGA, Serial	2x USB 2.0, USB 3.0, VGA, Serial
VGA/Audio	Integrated video from Aspeed BMC	Integrated video from Aspeed BMC
Management	Built-in Aspeed BMC with IPMI 2.0, KVM, and more	Built-in Aspeed BMC with IPMI 2.0, KVM, and more
Drive Bays	Up to 4x hot-swap 3.5 SATA3 drives	Up to 8x hot-swap 2.5 HDD
Peripheral Bays	330W high-efficiency power supply	N/A
Power Supply	350W high-efficiency power supply	Single 330W high-efficiency power supply
Cooling System	4x 4cm chassis internal fan	null, 3x 4cm chassis internal fan
Form Factor	1U Rackmount 437 x 43 x 503mm (17.2 x 1.7 x 19.8 )	1U rackmount 1.7 x 17.2 x 19.98 ; Enclosure: 437 x 43 x 507mm (17.2 x 1.7 x 19.98 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



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### Mainstream UP

High-Connectivity with Quad LAN



### Mainstream UP

Reliable Performance UP



### Mainstream UP

Cost-Effective Compact Server Appliance UP



MODEL	SYS-5018D-MTLN4F	SYS-5018D-MTRF SYS-5018D-MTF	SYS-5018D-MF
<b>Processor Support</b>	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families; Single socket H3 (LGA 1150) supported	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families; Single socket H3 (LGA 1150) supported	Single Intel® Xeon® Processor E3-1200 v3, 4th gen. Intel® Core™ i3 Processor, Intel® Pentium® Processor, Intel® Celeron® Processor product families; Single socket H3 (LGA 1150) supported
<b>Key Applications</b>	Data Center HPC Enterprise Server Compute Intensive Storage Environments	Data Center HPC Enterprise Server Compute Intensive Storage Environments	Automation, Cloud and Virtualization needs, Cloud Computing, Corporate Database, Corporate - WINS, DNS, Print, Login, Data Center, Data Farm, Data Warehouse, Database Processing & Storage, Disk Backup & Recovery, Downloads

**Mainstream UP**  
Storage UP, SAS2

**Mainstream UP**  
AVOTON Solution  
Best for Entry Web Hosting  
Low Power

**Mainstream UP**  
4-Core Intel® Atom™ Processor

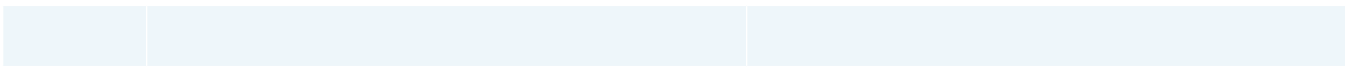
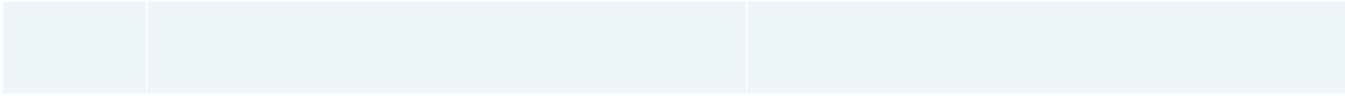
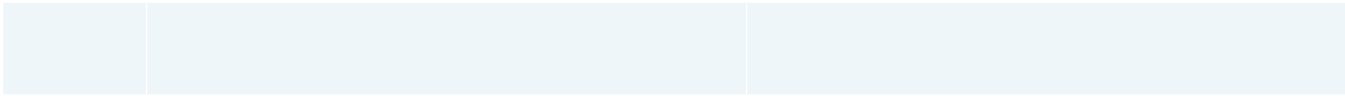
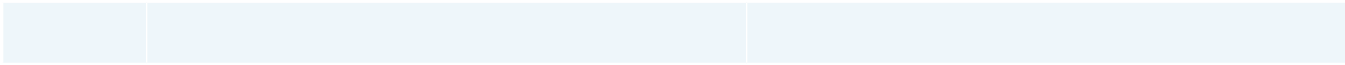
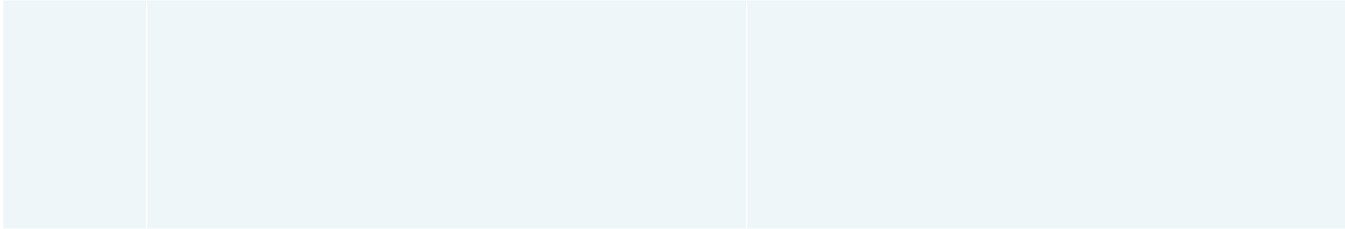


## 2U Short-Depth

16 DIMMs, up to 4 AOCs  
4 NVMe

## Mainstream

2U SAS3/SATA3  
Quad LAN, 24 DIMMs, 10GBase-T





### Mainstream

8x SAS3 (12Gbps) and  
8x SATA3 (6Gbps)



### Cost-Optimized

DDR4 16x DIMMs,  
2x LAN Ports, 6x Add-on Cards

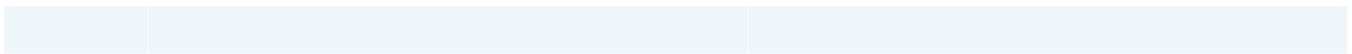
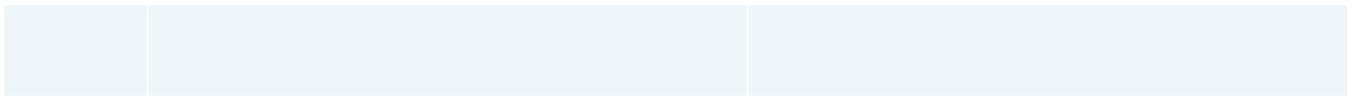
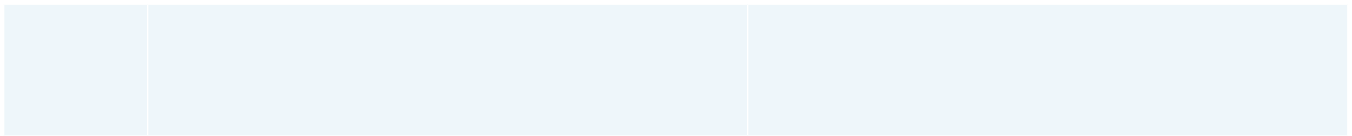


MODEL	SYS-2028R-C1R SYS-2028R-C1RT	SYS-6028R-T SYS-6028R-TT
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	Application and data serving Business Critical Applications Compute Intensive Application Database Processing & Storage DataCenter Applications Mission-critical applications Simulation & Automation	Cloud and Virtualization needs Hosting & Application delivery Database processing & Storage Simulation & Automation
Outstanding Features	8x SAS3 (12Gbps) and 8x SATA3 (6Gbps) 2.5 drives 2 SATA DOM support with embedded power 16 DIMM slots Redundant 920W Platinum Level high-efficiency Supports up to 7 expansion cards	16 DIMM slots 650W Gold Level high-efficiency power supply IPMI 2.0 + KVM with dedicated LAN 6x 3.5 hot-swap drive bays 2 SATA DOM support with built-in power
Serverboard	-C1R: SUPER® X10DRH-C -C1RT: SUPER® X10DRH-CT	-T: SUPER® X10DRi -TT: SUPER® X10DRi-T
Chipset	Intel® C612 Chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	1 PCI-E 3.0 x16; 6 PCI-E 3.0 x8 low profile add on cards.	3 PCI-E 3.0 x16 (LP) 3 PCI-E 3.0 x8 (LP)
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10; Broadcomfi 3108 HW with 2G Cache controller for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60	Intel® C612 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	-C1R: Dual LAN with Intel® i350 Gigabit Ethernet Controllers; -C1RT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector	-T: Dual LAN with Intel® i350 Gigabit Ethernet controller; or -TT: Dual 10Gb Ethernet LAN with Intel® X540 and 10GBase-T Connector
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 2.5 SAS3 (12Gbps) and 8x 2.5 6Gbps SATA3 (Total 16 hot-swap drives)	6x 3.5 hot-swap drive bays
Peripheral Bays	USB Support: Rear: 2x3.0 + 2x2.0, Front: 2x2.0, and 1x Type A; optional DVD-ROM drive: support either 1x slim or 1x 5.25 DVD drive	1 slim DVD/DVD-ROM drive (optional)
Power Supply	Redundant 920W Platinum Level (94%) high efficiency power supplies	650W high-efficiency power supply
Cooling System	3x 8cm high-performance PWM fans	4x 8cm hot-swap PWM cooling fans with air shroud with optimal fan speed control
Form Factor	2U Rackmount 437 x 89 x 630mm (17.2 x 3.5 x 24.8 )	2U Rackmount 437 x 89 x 648mm (17.2 x 3.5 x 25.6 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**Mainstream**  
2U 8-bay Hot-swap  
3.5 HDDs w/ 16 DIMMs

**Multi I/O**  
Maximum I/O Solutions  
11 PCI-E Slots





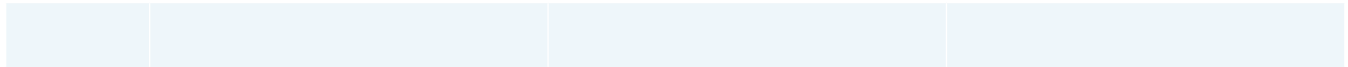
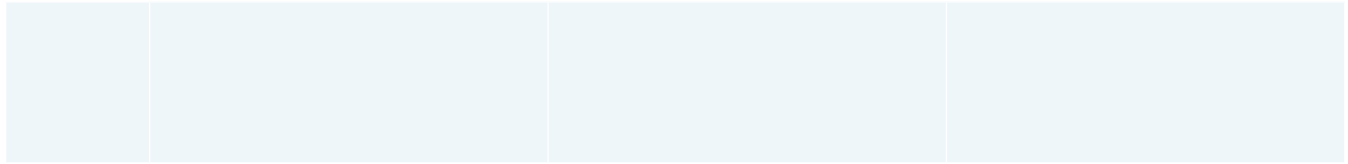




**Mainstream**  
4U Standalone/Rackmount, 16 DIMMs

**Mainstream**  
4U Standalone/Rackmount, 16 DIMMs

**Mainstream**  
4U Standalone/Rackmount/SAS3, 7 PCI-E 3.0



# X11 8-Way/4-Way

Intel® Xeon® Scalable Processors Supported

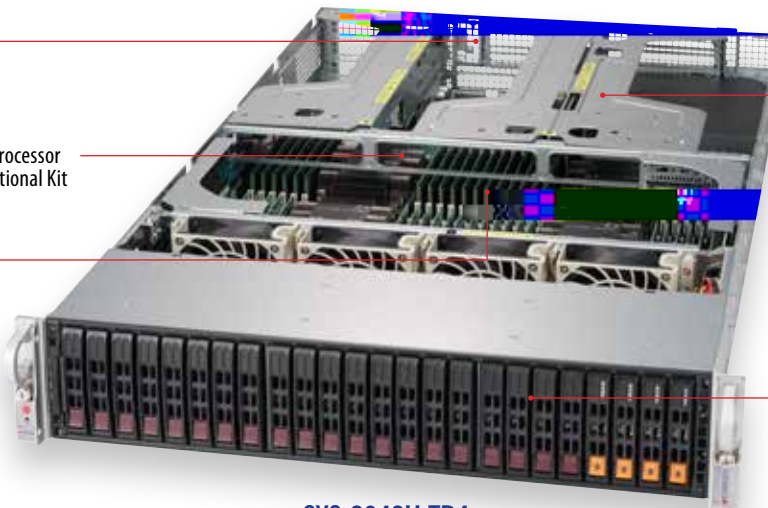


- Intel® Xeon® Scalable processors (Platinum 8100 / Gold 6100)
- 12TB in 96 DIMM slots (SYS-7089P), 6TB in 48 DIMM slots (SYS-2049U)
- 23 PCI-E 3.0 expansion slots, 32 U.2 NVMe or 8 GPU support (SYS-7089P)

- 6 PCI-E 3.0 x16 Slots and
- 5 PCI-E 3.0 x8 Slots

- Quad Intel® Xeon® Scalable Processor
- Up to 165W or 205W with Optional Kit

- 48 DIMM Slots DDR4



- Redundant 1600W Titanium Level Power Supplies

- 24x 2.5" Hot-swap SATA3 Drive Bays
- Optional SAS3 RAID or up to 4 U.2 NVMe via AoC

SYS-2049U-TR4

7U 8-Way



SYS-7089P-TR4T

Ultra 2U 4-Way



SYS-2049U-TR4

**For Enterprise Mission Critical Applications and Advanced Analytics, Database, Virtualization, and Scale-Up HPC Workloads, with up to:**

- Intel® Xeon® Scalable processors (Platinum 8100 / Gold 6100)
- 12TB in 96 DIMM slots (SYS-7089P), 6TB in 48 DIMM slots (SYS-2049U)
- 23 PCI-E 3.0 expansion slots, 32 U.2 NVMe or 8 GPU support (SYS-7089P)
- 11 PCI-E 3.0 expansion slots, 4 U.2 NVMe or 2 GPU support (SYS-2049U)
- 4x 10GBase-T ports with Intel® X550 10GbE controller (SYS-7089P)
- Redundant Titanium Level high-efficiency (96%+) power supplies
- Total Solution with Server Management Utilities including IPMI 2.0
- Server Management and remote KVM with dedicated LAN, Power Management



### 7U 8-Way

Up to 224 cores per system, 23 PCI-E 3.0 slots,  
41 NVMe/24 SAS3 option



### Ultra 2U 4-Way

48 DDR4 DIMMs  
11 PCI-E 3.0 slot, SAS/NVMe available



MODEL	SYS-7089P-TR4T	SYS-2049U-TR4
Processor Support	Octa Intel® Xeon® Processor Platinum 8100 product family with 3 UPI up to 10.4GT/s	Quad Intel® Xeon® Processor Platinum 8100, Gold 6100, and Gold 5100 product family with 3 UPI up to 10.4GT/s
Key Applications	Virtualization ERP, CRM In-Memory Database Application Research lab/National Lab Scale-up HPC	ERP, CRM High End Enterprise Server Business Intelligence Scientific Virtualization High Performance Computer Cluster (HPCC)
Outstanding Features	8 Sockets, up to 224 cores per system 96 DDR4 Memory DIMM slots, up to 6TB Up to 23 PCIe3.0 Slots Up to 8 GPU Optional up to 32 U.2 NVMe	4 NVMe SSD ports Ready Up to 11 x PCIe3.0 Slots 4 x GLAN + 1 Dedicated IPMI 2U Rack Mount Chassis
Serverboard	SUPER <sup>®</sup> X110PI-CPU	SUPER <sup>®</sup> X110PH+
Chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)*	96 DDR4 up to 12TB 2666MHz ECC 3DS LRDIMM, RDIMM	48 DDR4 up to 6TB 2666MHz ECC 3DS LRDIMM, RDIMM
Expansion Slots	23 or 39 (OEM) PCI-E 3.0 slots include 8 FH x16 PCI-E cards or 8 GPUs or 16 U.2 NVMe + 8 FHFL x16 PCI-E cards or 16 U.2 NVMe + 2 LP x8 (in x16 slot) PCI-E internal cards (storage module) + 5 FHHL x16 PCI-E cards (rear)	2 LPHL PCI-E 3.0 x16 (Left-internal) + 2 LPHL PCI-E 3.0 x16 (Right-internal), 2 Double Width FH PCI-E 3.0 x16 (Rear) + 1 LPHL PCI-E 3.0 x8 (Rear) + 2 FHFL PCI-E 3.0 x8 (Rear) + 2 FHHL PCI-E 3.0 x8 (Rear)
Onboard Storage Controller	Intel C621 including 2 SATA3 (SATA DOM), 2 M.2 (SATA3/PCIe), 8HDD (SATA3), 1TPM Header, and 1 VROC key header	Intel® C621 including 2 SATA3 (SATA DOM), 12 SATA3 (HDD/SSD), 1 TPM header, and 1 VROC key header
Connectivity	4-port 10GBASE-T Ethernet SIOM (Intel® X550 10GbE controller)	4 x Gigabit Ethernet ports via AOC-2UR66-i4G
VGA/Audio	1 VGA by Aspeed AST2500 BMC	1 x VGA, 1 Aspeed AST2500 BMC;
Management	Aspeed 2500 1 Port IPMI on AOM	Intel® Node Manager; IPMI2.0; NMI; SMCBU and SMM; SuperDoctorfi 5; Watchdog;
Drive Bays	16 hot swap 2.5 SAS3 HDDs (w/ RAID cards) 8 2.5 or 6 3.5 internal HDDs (w/ RAID cards)	24 hot-swap 2.5 SAS3/SATA3 drives supported via optional Add-on RAID controller card; 4 Hybrid ports with NVMe supported via optional Add-on card
Peripheral Bays	N/A	No Peripheral Drive;
Power Supply	5 x 1600W (N+2 Redundant), Titanium Level power supply w/ PMBus	1600W Redundant Titanium Level Power Supply;
Cooling System	8 92x92x76 mm, 10.5K-10.8K RPM, Counter-rotating Exhaust Hot-Swappable Rear Fans	4 X 8cm Heavy Duty Fan
Form Factor	7U Rackmount; Enclosure: 448 x 310 x 733mm (17.63 x 12.2 x 28.87 ) Package: 759 x 978 x 1199mm (29.9 x 38.5 x 47.2 )	2U; Enclosure: 437 x 89 x 780mm (17.2 x 3.5 x 30.7 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP



**7U 8-Way**  
Up to 24TB memory capacity, 15 PCI-E 3.0 slots  
16 NVMe/12SAS3 option



**Ultra 2U 4-Way**  
48 DDR4 DIMMs  
11PCI-E 3.0 slot, SAS/NVMe available



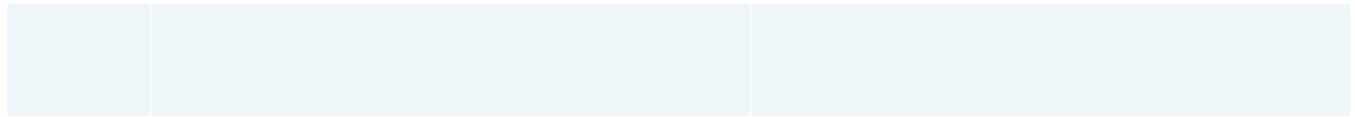
MODEL	SYS-7088B-TR4FT	SYS-2048U-RTR4
Processor Support	Eight Intel® Xeon® Processor E7-8800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® processor E5-4600 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	High End Enterprise Server ERP, CRM Database Applications Research lab/National Lab Virtualization High-performance computing	Virtualization High End Enterprise Server Cloud Computing DataCenter Applications HPC
Outstanding Features	X10 EX 8-Way 192 cores Up to 192 DDR4 Memory DIMMs Up to 24TB (Broadwell), or 12 TB (Haswell) Up to 15 PCI-E FH slots Up to 16 optional U.2 NVMe support Optional up to 8 GPU 4x 10G LAN + 1 dedicated IPMI	Up to 88 cores per system 48 DDR4 up to 6TB Memory 4 NVMe SSD ports Ready Up to 11 PCI-E3.0 Slots 4 GLAN + 1 Dedicated IPMI 2U Rack Mount Chassis
Serverboard	SUPER® X100BI-CPU	SUPER® X100RH+
Chipset	Intel® C602J chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 24TB DDR4 (128GB LRDIMM); 192 DIMM slots	Up to 6TB DDR4 (128GB LRDIMM); up to 2400MHz; 48 DIMM slots
Expansion Slots	15 PCI-E 3.0 FH slots (8 PCI-E 3.0 x16 + 7 PCI-E 3.0 x8) (16 2.5 NVMe optional support + 7 PCI-E slots)	9 PCI-E 3.0 x8; 2 PCI-E 3.0 x16
Onboard Storage Controller	Intel C602J including 2 SATA3 (SATA DOM) + 4 SATA2 (2 M.2, 2 HDD)	Intel® C612 for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10, including 8 HDD and 2 SATADOM
Connectivity	4-port 10GBase-T Ethernet SIOM (Intel® X550 10GbE controller); 1 Port IPMI	Quad LAN with Intel® i350 Gigabit Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12x hot swap 2.5 SAS3 HDDs (w/ RAID cards); 20x 2.5 or 3.5 internal HDDs (w/ RAID cards)	24 hot-swap 2.5 SAS3 drive support via extra Add-on RAID controller card; 4 Hybrid ports with NVMe support via extra Add-on card
Peripheral Bays	7U Rackmountable Rackmount Kit	N/A
Power Supply	5x 1600W (N+1 Redundant) Titanium Level power supplies with PMBus	1000W Redundant Titanium Level power supplies; 2000W power supply options available
Cooling System	8x 9cm Hot-Swappable Counter-Rotating Rear Fans	4x 8cm heavy duty fans with speed control
Form Factor	7U Rackmount 448 x 310 x 733mm (17.63 x 12.2 x 28.87 ) Gross Weight: 208lbs (94.35kg)	2U Rackmount 437 x 89 x 780mm (17.2 x 3.5 x 30.7 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP

**EX 4-Way**  
E7-8800/4800 v4/v3,  
32 DDR4 DIMMs in 2U

**EX 4-Way**  
E7-8800/4800 v4/v3,  
32 DDR4 DIMMs in 2U



Chipset 0 Intel® E7 C

Up to 4TB ECC DDR4 28GB 1 (LRDIMM),  
2 PCI-E 3.0 x8 L P slot  
2 PCI-E 3.0 6 x1 L P slot;

4 Broadcom C602 J 3008 for S W (Gbps);  
SATA2 3 (

VGA/Audio A

LAN, dedicated IPMI with 5 K VM + SSM, 2 SPM, IPMI, Management, Node, Node W h a d

B Peripheral

Power Supply 1 4 0 0 W R e d Supply n d a n t P  
S Cooling

S S

8/4-Way MP

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**EX 4-Way**  
E7-8800/4800 v4/v3,  
32 DDR4 DIMMs in 4U Tower/Rackmount



**EX 4-Way**  
E7-8800/4800 v4/v3,  
32 DDR4 DIMMs in 4U Tower/Rackmount



MODEL	SYS-8048B-TR4F	SYS-8048B-COR4FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	Compute Intensive Application Mission-critical applications Enterprise Server	Finance, Banking, e-Commerce Compute Intensive Application Mission-critical applications Enterprise Server
Outstanding Features	Up to 96 cores per system Up to 4TB DDR4 memory capacity in 32 DIMM slots 4U 4-way system 4 PCI-E 3.0 support 1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with iPC & PMBus	Up to 96 cores per system Up to 4TB DDR4 memory capacity in 32 DIMM slots 4U 4-way system 4 PCI-E 3.0 support Broadcom® 3008 on board 1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with iPC & PMBus
Serverboard	SUPER® X10QBL-4	SUPER® X10QBL-4CT
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	32 DIMM slots, Up to 4TB ECC DDR4 (128GB LRDIMM), speed up to 1866MHz; 32 DIMM slots	32 DIMM slots, Up to 4TB ECC DDR4 (128GB LRDIMM), speed up to 1866MHz; 32 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 FH slot; 2 PCI-E 3.0 x8 FH slot	2 PCI-E 3.0 x16 FH slot; 2 PCI-E 3.0 x8 FH slot
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports; 4 SATA2 (3 Gbps); RAID0,1,5,10	Intel® C602J for 2 SATA3 (6 Gbps) ports; 4 SATA2 (3 Gbps); RAID0,1,5,10; Broadcom® 3008 SW controller on board
Connectivity	Dual LAN with Intel® i350 Gigabit Ethernet Controller	Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	5x 3.5 hot-swap SATA/SAS drive bays	5x 3.5 hot-swap SAS2 drive bays (through SAS2 Backplane)
Peripheral Bays	3x 5.25 peripheral bays; Optional 2x M28SAB-OEM (SAS3 Mobile Rack)	3x 5.25 peripheral bays; Optional 2x M28SAB-OEM (SAS3 Mobile Rack)
Power Supply	1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with iPC & PMBus	1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with iPC & PMBus
Cooling System	3x 9cm mid fans + 3x 8cm rear fans with speed control	3x 9cm mid fans + 3x 8cm rear fans with speed control
Form Factor	4U Rackmount/Tower 462 x 178 x 721mm (18.2 x 7 x 28.4 )	4U Rackmount/Tower 462 x 178 x 721mm (18.2 x 7 x 28.4 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP



**EX 4-Way**  
E7-8800/4800 v4/v3, 32 DDR3 DIMMs in 2U



**EX 4-Way**  
E7-8800/4800 v4/v3, 32 DDR3 DIMMs in 4U Tower/Rackmount



MODEL	SYS-8028B-TR3F SYS-8028B-COR3FT	SYS-8048B-TR3F SYS-8048B-COR3FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	Compute Intensive Application Mission-critical applications Enterprise Server	Compute Intensive Application Mission-critical applications Enterprise Server
Outstanding Features	Up to 96 cores per system Up to 2TB DDR3 memory capacity in 32 DIMM slots 2U 4-way system 4 PCI-E 3.0 support <ul style="list-style-type: none"> <li>-COR3FT: Broadcomfi 3008 on board</li> </ul> 1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with I <sup>2</sup> C & PMBus	Up to 96 cores per system Up to 2TB DDR3 memory capacity in 32 DIMM slots 4U 4-way system 4 PCI-E 3.0 support <ul style="list-style-type: none"> <li>-COR3FT: Broadcomfi 3008 on board</li> </ul> 1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with I <sup>2</sup> C & PMBus
Serverboard	-TR3F: SUPER <sup>®</sup> X10QBL -COR3FT: SUPER <sup>®</sup> X10QBL-CT	-TR3F: SUPER <sup>®</sup> X10QBL -COR3FT: SUPER <sup>®</sup> X10QBL-CT
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 2TB ECC DDR3 (64GB LRDIMM), speed up to 1600MHz (32GB LRDIMM); 32 DIMM slots	32 DIMM slots, Up to 2TB ECC DDR3 (64GB LRDIMM), up to 1600MHz (32GB LRDIMM); 32 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 LP slot; 2 PCI-E 3.0 x8 LP slot	2 PCI-E 3.0 x16 FH slot; 2 PCI-E 3.0 x8 FH slot
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports; -TR3F: 4 SATA2 (3 Gbps); RAID0,1,5,10; -COR3FT: 4 SATA2 (3 Gbps); RAID0,1,5,10; Broadcomfi 3008 SW controller on board	Intel® C602J for 2 SATA3 (6 Gbps) ports; -TR3F: 4 SATA2 (3 Gbps); RAID0,1,5,10; -COR3FT: 4 SATA2 (3 Gbps); RAID0,1,5,10; Broadcomfi 3008 SW controller on board
Connectivity	-TR3F: Dual LAN with Intel® i350 Gigabit Ethernet Controller; -COR3FT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller	-TR3F: Dual LAN with Intel® i350 Gigabit Ethernet Controller; -COR3FT: Dual LAN with Intel® X540 10GBase-T Ethernet Controller
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	6x 3.5 hot-swap SATA drive bays	5x 3.5 hot-swap SATA/SAS drive bays
Peripheral Bays	N/A	3x 5.25 peripheral bays; Optional 2x M28SAB-OEM (SAS3 Mobile Rack)
Power Supply	1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies	1400W Redundant <b>Platinum Level Digital</b> (94%+) high-efficiency power supplies with I <sup>2</sup> C & PMBus
Cooling System	3x 8cm heavy duty fans with speed control	3x 9cm mid fans + 3x 8cm rear fans with speed control
Form Factor	2U Rackmount 437 x 89 x 709mm (17.2 x 3.5 x 27.9 )	4U Rackmount/Tower 462 x 178 x 721mm (18.2 x 7 x 28.4 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP





**EX 4-Way**  
E7-8800/4800 v4/v3, 96 DDR4 DIMMs,  
up to 12TB memory capacity, 11 PCI-E 3.0 slots; SAS2 (6 Gbps)



**EX 4-Way**  
E7-8800/4800 v4/v3, 96 DDR4 DIMMs,  
up to 12TB memory capacity, 11 PCI-E 3.0 slots; SAS3 (12 Gbps)



MODEL	SYS-8048B-TR4FT	SYS-4048B-TR4FT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	Business Intelligence ERP, CRM Database Applications Research lab/National Lab Virtualization	Business Intelligence ERP, CRM Database Applications Research lab/National Lab Virtualization
Outstanding Features	Up to 96 CPU cores per system Up to 12TB in 96 memory DIMMs Up to 11 PCI-E 3.0 slots Up to 24 3.5 HDDs, SAS 2.0 (6Gbps) Up to 4x 1620W Redundant <b>Platinum Level</b> (94%) power supplies	Up to 96 CPU cores per system Up to 12TB in 96 memory DIMMs Up to 11 PCI-E 3.0 slots Up to 48 <b>SAS 3.0</b> (12Gbps) 2.5 drive bays Up to 4x 1620W Redundant <b>Platinum Level</b> (94%) power supplies
Serverboard	SUPER● X100Bi	SUPER● X100Bi
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 12TB ECC DDR4 with 128GB 3DS LRDIMM (8x memory module board: X100Bi-MEM2), speed up to 1866MHz; 96 DIMM slots	Up to 12TB ECC DDR4 with 128GB 3DS LRDIMM (8x memory module board: X100Bi-MEM2), speed up to 1866MHz; 96 DIMM slots
Expansion Slots	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)
Connectivity	Dual 10GBase-T ports with Intel® X540 controller on AOM card	Dual 10GBase-T ports with Intel® X540 controller on AOM card
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 hot-swap 3.5 SAS2 drive support via extra Add-on RAID controller card	24 hot-swap 2.5 SAS3 drive support via extra Add-on RAID controller card; optional: up to 48 hot-swap 2.5 SAS3 drives support via extra backplane + add-on RAID controller card
Peripheral Bays	N/A	N/A
Power Supply	(N+1) Redundant 1620W up to 4 <b>Platinum Level</b> (94%) power supplies	(N+1) Redundant 1620W up to 4 <b>Platinum Level</b> (94%) power supplies
Cooling System	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans
Form Factor	4U Rackmount 437 x 178 x 846mm (17.2 x 7 x 33.3 )	4U Rackmount 437 x 178 x 795mm (17.2 x 7 x 31.3 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP



**EX 4-Way**  
E7-8800/4800 v4/v3, 96 DDR3 DIMMs,  
up to 6TB memory capacity, 11 PCI-E 3.0 slots; SAS2 (6 Gbps)

**EX 4-Way**  
E7-8800/4800 v4/v3, 96 DDR3 DIMMs,  
up to 6TB memory capacity, 11 PCI-E 3.0 slots; SAS3 (12 Gbps)



MODEL	SYS-8048B-TRFT	SYS-4048B-TRFT
Processor Support	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s	Quad Intel® Xeon® Processor E7-8800/4800 v4/v3 product families supported, QPI up to 9.6GT/s
Key Applications	Business Intelligence ERP CRM Database Virtualization Research Lab/National Lab	Business Intelligence ERP CRM Database Virtualization Research Lab/National Lab
Outstanding Features	Up to 96 CPU cores per system Up to 6TB in 96 memory DIMMs Up to 11 PCI-E 3.0 slots Up to 24 SAS 2.0 (6Gbps) 3.5 drive bays Independent power and cooling controls Up to 4x 1620W Redundant <b>Platinum Level</b> (94%) power supplies	Up to 96 CPU cores per system Up to 6TB in 96 memory DIMMs Up to 11 PCI-E 3.0 slots Up to 48 <b>SAS 3.0</b> (12Gbps) 2.5 drive bays Independent power and cooling controls Up to 4x 1620W Redundant <b>Platinum Level</b> (94%) power supplies
Serverboard	SUPER <sup>®</sup> X10QBi / X10QBi-MEM1 / AOM-X10QBi-A	SUPER <sup>®</sup> X10QBi / X10QBi-MEM1 / AOM-X10QBi-A
Chipset	Intel® C602J chipset	Intel® C602J chipset
System Memory (Max.)*	Up to 6TB ECC DDR3 RDIMM/LRDIMM (8x memory module board: X10QBi-MEM2), speed up to 1866MHz; 96 DIMM slots	Up to 6TB ECC DDR3 RDIMM/LRDIMM (8x memory module board: X10QBi-MEM2), speed up to 1866MHz; 96 DIMM slots
Expansion Slots	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards	11 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 7x PCI-E3.0 x8) with 4 memory module boards; 8 PCI-E 3.0 slots (4x PCI-E3.0 x16 + 4x PCI-E3.0 x8) with 8 memory module boards
Onboard Storage Controller	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)	Intel® C602J for 2 SATA3 (6 Gbps) ports and 4 SATA2 (3 Gbps)
Connectivity	Dual 10GBase-T ports with Intel® X540 controller on AOM card	Dual 10GBase-T ports with Intel® X540 controller on AOM card
VGA/Audio	AST2400 VGA	AST2400 VGA
Management	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 hot-swap 3.5 SAS2 drive support via extra Add-on RAID controller card	24 hot-swap 2.5 <b>SAS3</b> drive support via extra Add-on RAID controller card; optional: up to 48 hot-swap 2.5 <b>SAS3</b> drives support via extra backplane + add-on RAID controller card
Peripheral Bays	N/A	N/A
Power Supply	(N+1) Redundant 1620W <b>Platinum Level</b> (94%) power supplies	(N+1) Redundant 1620W <b>Platinum Level</b> (94%) power supplies
Cooling System	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans	4x 9cm mid fans + 3x 8cm rear fans with speed control; optional 2 additional 8cm rear fans
Form Factor	4U Rackmount 437 x 178 x 846mm (17.2 x 7 x 33.3 )	4U Rackmount 437 x 178 x 795mm (17.2 x 7 x 31.3 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP

# MicroCloud

24/12/8 Modular UP Server Nodes in 3U • High-Density, High-Performance

- High-Efficiency, and Cost-Effective • Easy-to-Service
- Space Saving, Optimized for Cloud Computing and Web Hosting



SYS-5039MS-H12TRF

12 UP Nodes

12 set of 2x 3.5" SATA3 HDD; or 4x 2.5" SATA3; or  
2x 2.5" NVMe + 2x 2.5" SATA3; or  
2x 2.5" NVMe + 1x 3.5" SATA3



SYS-5038MD-H8TRF

8 UP Nodes

45W 8-core SoC  
8 sets of 2x 3.5" SATA 3 HDD; or  
2x 2.5" SATA 3 w/ optional kits  
4x M.2 support



SYS-5038MD-H24TRF

24 UP Nodes

45W 6-core SoC  
24 set of 2 x 2.5" SATA3 HDD; or  
24 set of 4x 2.5" Slim SSD w/ optional kit



SYS-5039MD8-H8TNR  
SYS-5039MD18-H8TNR

High Density, High Performance node counts  
Energy Efficiency Design



SYS-5039MS-H12TRF (Skylake)  
SYS-5038ML-H12TRF / H12TRFG (Haswell)

12 Hot-pluggable Nodes in 3U  
(Front I/O)  
4x 2.5" HDDs/Node



SYS-5038MD-H8TRF (XeonD)  
SYS-5039MS-H8TRF (Skylake)  
SYS-5038ML-H8TRF/OEM (Haswell)  
SYS-5038MR-H8TRF (Broadwell)

8 Hot-pluggable Nodes in 3U  
(Rear I/O)

The Supermicro MicroCloud modular server system provides the high density, performance, efficiency and cost effectiveness required for today's demanding server deployments. The 24/12/8 modular server nodes are conveniently integrated into a compact 3U chassis that is less than 30 inches deep, saving over 76% of rack space when compared to traditional 1U servers. The cable-less, hot-pluggable server nodes operate independently. Each node provides up to Up to 128GB DDR4-2133/1866/1600MHz of ECC Unbuffered DIMM or 128GB RDIMM / 256GB LRDIMM / 512GB LRDIMM ECC DDR4 memory, one PCI-E 3.0 x8 expansion slot for low-profile add-on card, and 2x 2.5" NVMe, 2x 3.5", or 4x 2.5" HDDs. The MicroCloud system utilizes redundant Titanium Level (96%) high-efficiency power supplies and sophisticated cooling zone controls for a Green energy profile. Each node is powered by the latest Intel® Xeon® Processor E3-1200 v5 (up to 80W) or Intel® Xeon® Processor E5-2600 v4/v3 (up to 145W) or Intel® Xeon® processor D (45W) product families.

**MicroCloud**  
3U 12N Denverton SoC

**MicroCloud**  
3U 12N Denverton SoC



MODEL	SYS-5039MA8-H12RFT	SYS-5039MA16-H12RFT
Processor Support	Intel® Atom™ Processor C3750., Single Socket FCBGA1310 supported, CPU TDP support 21W	Intel® Atom™ Processor C3955., Single Socket FCBGA1310 supported, CPU TDP support 32W
Key Applications	Cloud Computing Web Cache Web Hosting, VM Social Networking Corporate- WINS, DNS, Print, Login	Cloud Computing Web Cache Web Hosting, VM Social Networking Corporate- WINS, DNS, Print, Login
Outstanding Features	12 UP hot-pluggable nodes in 3U Flexible HDD selection, 2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" NVME plus 2x 2.5" SATA3 or 2x 2.5" NVME plus 1x 3.5" SATA 3 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies UID LED Centralized dedicated management switch port	12 UP hot-pluggable nodes in 3U Flexible HDD selection, 2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" NVME plus 2x 2.5" SATA3 or 2x 2.5" NVME plus 1x 3.5" SATA 3 2000W High Efficiency (96%) Titanium Level Redundant Power Supplies UID LED Centralized dedicated management switch port
Serverboard	SUPER <sup>®</sup> A2SD1-3750F	SUPER <sup>®</sup> A2SD1-3955F
Chipset	Intel® Denverton SoC	Intel® Denverton SoC
System Memory (Max.)*	Up to VLP 128GB ECC RDIMM, DDR4-2400MHz Or 64GB ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots	Up to VLP 128GB ECC RDIMM, DDR4-2400MHz or 64GB ECC UDIMM, DDR4-2400MHz, in 4 DIMM slots
Expansion Slots	no PCIe support	no PCIe support
Onboard Storage Controller	no RAID support	no RAID support
Connectivity	Dual LAN Intel® 10GBase-T on board controller	Dual LAN Intel® 10GBase-T on board controller
VGA/Audio	Aspeed AST2400 graphics	Aspeed AST2400 graphics
Management	IPMI 2.0 + KVM with dedicated LAN, Intel Node Manager, SUM, SPM, SSM, SuperDoctor 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel Node Manager, SUM, SPM, SSM, SuperDoctor 5, Watchdog
Drive Bays	12 set of 2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" NVME plus 2x 2.5" SATA3 or 2x 2.5" NVME plus 1x 3.5" SATA3	2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" NVME plus 2x 2.5" SATA3 or 2x 2.5" NVME plus 1x 3.5" SATA3
Peripheral Bays	null	null
Power Supply	2000W Redundant Titanium Level high-efficiency power supplies	2000W Redundant Titanium Level high-efficiency power supplies
Cooling System	4 x 9cm Heavy duty fans with optimal cooling zone	4 x 9cm Heavy duty fans with optimal cooling zone
Form Factor	3U Rackmount 444.5mm x 132.5mm x 749.3mm (17.5" x 5.21" x 29.5") (17.5" x 5.21" x 29.5") (28.35" x 16.1" x 42.36")	3U Rackmount 444.5mm x 132.5mm x 749.3mm (17.5" x 5.21" x 29.5") (17.5" x 5.21" x 29.5") (28.35" x 16.1" x 42.36")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

8/4-Way MP

## 12 UP Nodes

Exceptional performance with SMC , exclusive 16GB VLP DDR4 ECC UDIMM (MEM-DR416L-CV01-EU24)\*\*



## 8 UP Nodes



MODEL	SYS-5039MS-H12TRF	SYS-5039MS-H8TRF
Processor Support	12 set of Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core i3, Intel® Pentium®, Intel® Celeron® processors product family	8 set of Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core i3, Intel® Pentium®, Intel® Celeron® processors product family
Key Applications	Cloud Computing Web Cache Web Hosting, VM Social Networking Corporate- WINS, DNS, Print, Login	Cloud Computing Web Cache Web Hosting, VM Social Networking
Outstanding Features	Up to 12x hot-pluggable node in 3U chassis Flexible HDD selection, 2x 3.5 SATA3 or 4x 2.5 SATA3 or 2x 2.5 NVMe plus 2x 2.5 SATA3 or 2x 2.5 NVMe plus 1x 3.5 SATA 3 Redundant 2000W Titanium Level high-efficiency power supplies UID LED Centralized dedicated management switch port	Up to 8x hot-pluggable node in 3U chassis 1 PCI-E 3.0 (x8) low-profile Redundant 1600W Titanium Level high-efficiency power supplies Hot-swappable SAS/SATA3 HDDs UID LED
Serverboard	SUPER® X11SSE-F	SUPER® X11SSD-F
Chipset	Intel® C236 chipset	Intel® C236 chipset
System Memory (Max.)*	12 set of up to 64GB Unbuffered ECC Very Low Profile DDR4 2133MHz in 4 DIMM slots	8 set of up to 64GB Unbuffered ECC Low Profile DDR4 2133MHz in 4 DIMM slots
Expansion Slots	12 set of Micro-LP slots (MicroLP upgradable)	8 set of PCI-E 3.0 x8 low profile slot and 8 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	12 set of Intel® C236 controller for 2 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10	8 set of Intel® C236 controller for 2 SATA3 (6Gbps) ports; RAID 0, 1,5,10: Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	12 set of Dual LAN Intel® i350 GbE LAN controller	8 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	12 set of AST2400 VGA	8 set of AST2400 VGA
Management	Single dedicate management port, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12 set of 2x 3.5 SATA3 HDD; or 4x 2.5 SATA3; or 2x 2.5 NVMe + 2x 2.5 SATA3; or 2x 2.5 NVMe + 1x 3.5 SATA3	8 set of 2x 3.5 SATA3 HDD; or 2x 2.5 SATA3 w/ option kits
Peripheral Bays	2000W Redundant Titanium Level high-efficiency power supplies	1600W Redundant Titanium Level high-efficiency power supplies
Power Supply	4x 9cm heavy duty fans with optimal cooling zone	4x 8cm hot-swap cooling fans with fan speed control
Cooling System	3U Rackmount 444.5 x 132.5 x 749.3mm (17.5 x 5.21 x 29.5 )	3U Rackmount 438.4 x 132.5 x 589mm (17.26 x 5.21 x 23.2 )
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## 3U MicroCloud

High Density, High Performance node counts Energy Efficiency Design

## 3U MicroCloud

High Density, High Performance node counts Energy Efficiency Design



MODEL	SYS-5039MD8-H8TNR	SYS-5039MD18-H8TNR
Processor Support	Intel® Xeon® Processor D-2141I, 8-Cores, 16 Threads, CPU TDP support 65W	Intel® Xeon® Processor D-2191, 18-Cores, 36 Threads, CPU TDP support 86W
Key Applications	Cloud Computing Web Cache Web Hosting, VM Social Networking CDN	Cloud Computing Web Cache Web Hosting, VM Social Networking CDN
Outstanding Features	Intel® Xeon® Processor D-2141I, 8-Cores, 16 Threads, CPU TDP support 65W 2x 3.5" SATA3 or 2x 2.5" Hybrid SATA3/NVMe w/ optional kits Up to 512GB ECC LRDIMM, up to 256GB ECC RDIMM DDR4-2133Mz; in 4 DIMM slots 1x PCIe3.0 x16, 1x Micro-LP, and 2x M.2 2x 1GbE port, 1x 1GbE centralized IPMI management port Redundant 1600W Titanium Level high-efficiency power supplies	Intel® Xeon® Processor D-2191, 18-Cores, 36 Threads, CPU TDP support 86W 2x 3.5" SATA3 or 2x 2.5" Hybrid SATA3/NVMe w/ optional kits Up to 512GB ECC LRDIMM, up to 256GB ECC RDIMM DDR4-2400Mz; in 4 DIMM slots 1x PCIe3.0 x16, 1x Micro-LP, and 2x M.2 2x 1GbE port, 1x 1GbE centralized IPMI management port Redundant 1600W Titanium Level high-efficiency power supplies
Serverboard	SUPER <sup>®</sup>	SUPER <sup>®</sup>
Chipset	Intel® Xeon® Processor D SoC	Intel® Xeon® Processor D SoC
System Memory (Max.)*	Up to 512GB ECC LRDIMM, up to 256GB ECC RDIMM DDR4-2133Mz; in 4 DIMM slots	Up to 512GB ECC LRDIMM, up to 256GB ECC RDIMM DDR4-2400Mz; in 4 DIMM slots
Expansion Slots	Eight set of 1 PCI-E 3.0 x16 (low profile)	Eight set of 1 PCI-E 3.0 x16 (low profile)
Onboard Storage Controller	8 set of Intel® Xeon® Processor D SoC	8 set of Intel® Xeon® Processor D SoC
Connectivity	8 set of Dual LAN Intel(R) i350 GbE LAN controller	8 set of Dual LAN Intel(R) i350 GbE LAN controller
VGA/Audio	on board VGA by KVM connector	on board VGA by KVM connector
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel(R) Node Manager, SUM, SPM, SSM, SuperDoctor(R) 5, Watchdog	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel(R) Node Manager, SUM, SPM, SSM, SuperDoctor(R) 5, Watchdog
Drive Bays	8 set of 2 x 3.5" SATA3 HDD; or 2x 2.5" Hybrid SATA3/NVMe w/ optional kits	8 set of 2 x 3.5" SATA3 HDD; or 2x 2.5" Hybrid SATA3/NVMe w/ optional kits
Peripheral Bays	N/A	N/A
Power Supply	1600W Redundant Titanium Level high-efficiency power supplies	1600W Redundant Titanium Level high-efficiency power supplies
Cooling System	4x 8cm hot-swap cooling fans with fan speed control, N/A	4x 8cm hot-swap cooling fans with fan speed control, N/A
Form Factor	3U Rackmount 387 x 132 x 585mm (15.25 x 5.2 x 23 ); Enclosure: 438 x 132 x 589mm (17.26 x 5.21 x 23.2 ) Package: 667 x 296 x 864mm (26.26 x 11.65 x 34 )	3U Rackmount 387 x 132 x 585mm (15.25 x 5.2 x 23 ); Enclosure: 438 x 132 x 589mm (17.26 x 5.21 x 23.2 ) Package: 667 x 296 x 864mm (26.26 x 11.65 x 34 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





### 8 UP Nodes



### 24 UP Nodes



### 24 UP Nodes



MODEL	SYS-5038MD-H8TRF	SYS-5038MD-H24TRF	SYS-5038MA-H24TRF
Processor Support	8 set of Intel® Xeon® processor D-1541, 8-Core, 45W	24 set of Intel® Xeon® Processor D-1531, 6-core, 45W	24 set of Intel® Atom® processor C2750 (20W, 8-Core)
Key Applications	Cloud Computing Web Cache Web Hosting, VM Social Networking CDN	Cloud Computing Web Cache Web Hosting, VM Social Networking CDN	CDN Hosting & Application delivery Web Cache Web Server Memcache
Outstanding Features	4x M.2 support (3x 22110, 1x 2240) Up to 8x hot-pluggable node in 3U chassis 1 PCI-E 3.0 (x8) low-profile Redundant 1600W <b>Titanium Level</b> high-efficiency power supplies Hot-swappable SAS/SATA3 HDDs UID LED	Low Power Xeon D SoC 6 Core Dual Intel i350 GbE LAN 128GB DDR4 ECC RDIMM/64GB ECC UDIMM Redundant 1600W <b>Platinum Level</b> power supply UID LED	24x Intel® Atom® processor Nodes in 12 hot-plug sleds, 2 nodes per sled 1620W Redundant <b>Platinum Level</b> high-Efficiency power supplies 2x 2.5 SATA 3.0 (6Gbps) HDDs per node 2 Gigabit Ethernet Ports per Node 32GB of DDR3 Unb. VLP ECC Memory per Node
Serverboard	SUPER® X10SDD-F	SUPER® X10SDE-DF	SUPER® A1SA2-2750F
Chipset	Intel® Xeon® Processor D SoC	Intel® Xeon® Processor D SoC	Intel® Atom® processor SoC
System Memory (Max.)*	8 set of up to 128GB DDR4 ECC RDIMM, 64GB DDR4 ECC/non-ECC UDIMM, in 4 DIMM slots	24 set of up to 128GB DDR4 VLP ECC RDIMM/64GB DDR4 VLP ECC UDIMM in 4 DIMM slots	24 set of up to 32GB ECC UDIMM, VLP DDR3-1600MHz in 4 DIMM Slots
Expansion Slots	8 set of PCI-E 3.0 x8 low profile slot and 8 set of Micro-LP slots (MicroLP upgradable)	N/A	N/A
Onboard Storage Controller	8 set of System on Chip	24 set of SoC controller for 2 SATA3 (6 Gbps) port	24 set of Intel® Atom® processor SoC for SATA3 (6Gbps) ports; RAID 0,1
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller	24 set of Dual port GbE and 1 dedicated IPMI per node	24 set of Dual port GbE
VGA/Audio	8 set of AST2400 VGA	24 set of AST2400 VGA	24 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	12 set of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes)	12 set of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes)
Drive Bays	8 set of 2x 3.5 SATA3 HDD; or 2x 2.5 SATA3 w/ option kits	24 set of 1x 2.5 HDD xed per node.	24 set of 2x 2.5 SATA3 xed HDDs per node
Peripheral Bays	1600W Redundant <b>Titanium Level</b> high-efficiency power supplies	1600W Redundant <b>Platinum Level</b> High-Efficiency power supplies	1620W Redundant <b>Platinum Level</b> High-Efficiency power supplies
Power Supply	4x 8cm hot-swap cooling fans with fan speed control	4x 9cm Heavy duty fan with optimal cooling zone	4x 9cm Heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 438.4 x 132.5 x 589mm (17.26 x 5.21 x 23.2 )	3U Rackmount 438 x 132 x 749.3mm (17.5 x 5.21 x 29.5 )	3U Rackmount 444.5 x 132.5 x 749.3mm (17.5 x 5.21 x 29.5 )
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 24 UP Nodes



## 12 Hot-plug UP Nodes



MODEL	SYS-5038ML-H24TRF	SYS-5038ML-H12TRF SYS-5038ML-H12TRFG
Processor Support	24 set of 4 <sup>th</sup> Generation Intel <sup>®</sup> Core i3 processor, Intel <sup>®</sup> Celeron <sup>®</sup> processor, Intel <sup>®</sup> Pentium <sup>®</sup> processor or Intel <sup>®</sup> Xeon <sup>®</sup> processor E3-1200 v3 product families; Socket H3 (LGA 1150) up to 80W CPU	12 set of 4 <sup>th</sup> Generation Intel <sup>®</sup> Core i3 processor, Intel <sup>®</sup> Celeron <sup>®</sup> processor, Intel <sup>®</sup> Pentium <sup>®</sup> processor or Intel <sup>®</sup> Xeon <sup>®</sup> processor E3-1200 v4/v3 product families; Socket H3 (LGA 1150) up to 80W CPU
Key Applications	Cloud Computing Web Cache, CDN, Video Streaming Web/Collocating Service Social networking/download	Cloud Computing Web Cache, CDN, Video Streaming Web/Collocating Service Social networking/download
Outstanding Features	24x UP Nodes in 12 hot-plug sleds, 2 nodes per sled 2000W Redundant <b>Platinum Level Digital</b> high-efficiency power supplies 2x 2.5 SATA3 (6Gbps) HDDs or 4x 2.5 slim SSD w/ optional kit per sled IPMI 2.0 + KVM with dedicated LAN Multi-node UP server UID LED	12x Hot-plug UP Nodes in 3U 1620W Redundant <b>Platinum Level</b> high-efficiency power supplies 4x 2.5 SATA / 2x 3.5 HDDs per node IPMI 2.0 + KVM with dedicated LAN UID LED
Serverboard	SUPER <sup>®</sup> X10SLE-DF	-H12TRF: SUPER <sup>®</sup> X10SLE-F -H12TRFG: SUPER <sup>®</sup> X10SLE-HF (-OEM)
Chipset	Intel <sup>®</sup> C224 chipset	-H12TRF: Intel <sup>®</sup> C224 chipset -H12TRFG: Intel <sup>®</sup> C226 chipset
System Memory (Max.)*	24 set of up to 32GB ECC UDIMM, VLP DDR3-1600 MHz in 4 DIMM slots	12 set of up to 32GB ECC UDIMM, VLP DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	N/A	12 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	24 set of Intel <sup>®</sup> C224 controller for 2 SATA 3 *6Gbps) ports; RAID 0, 1, 5, 10	12 set of Intel <sup>®</sup> C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	24 set of Dual LAN Intel <sup>®</sup> i350 GbE LAN controller	12 set of Dual LAN Intel <sup>®</sup> i350 GbE LAN controller
VGA/Audio	24 set of AST2400 VGA	12 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog	12 set of IPMI 2.0 + KVM with dedicated LAN, Intel <sup>®</sup> Node Manager, SUM, SPM, SSM, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	24 set of 1x 2.5 SATA3 xed HDDs; or 2x 2.5 slim SSD w/ optional kit	12 set of 2x 3.5 SATA3 xed HDDs or 4x 2.5 xed SATA3 HDDs w/ optional kit
Peripheral Bays	2000W Redundant <b>Platinum Level Digital</b> high-e ciency power supplies	1620W Redundant <b>Platinum Level</b> high-e ciency power supplies
Power Supply	4x 9cm Heavy duty fans with optimal cooling zone	4x 9cm Heavy duty fans with optimal cooling zone
Cooling System	3U Rackmount 444.5 x 132.5 x 791.2mm (17.5 x 5.21 x 31.15 )	3U Rackmount 444.5 x 132.5 x 749.3mm (17.5 x 5.21 x 29.5 )
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





## 8 Hot-plug UP Nodes



## 8 Hot-plug UP Nodes



MODEL	SYS-5038ML-H12TRF SYS-5038ML-H12TRFG	SYS-5038MR-H8TRF
Processor Support	8 set of 4th Generation Intel® Core i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v4/v3 product families; Socket H3 (LGA 1150), up to 84W CPU	8 set of Intel® Xeon® Processor E5-2600 v4/v3 product families, and Intel® Xeon® Processor E5-1600 v4/v3 product families
Key Applications	Cloud Computing Web Cache, CDN, Video Streaming Web/Collocating Service Social networking/download	CDN Cloud Computing Social Networking Video Streaming Web Cache
Outstanding Features	8x Hot-plug UP Nodes in 3U 1 PCI-E x8 slot 1620W Redundant <b>Platinum Level</b> high-efficiency power supplies IPMI 2.0 + KVM with dedicated LAN Hot-swappable SAS/SATA3 (6Gbps) HDDs UID LED	8 x Hot-plug UP nodes in 3U 1 x PCI-E x8 slot 1620W Redundant <b>Platinum Level</b> high-efficiency power supplies IPMI 2.0 + KVM with dedicated LAN Hot-swappable SAS/SATA3 (6Gbps) HDDs UID LED
Serverboard	SUPER® X10SLD-F SUPER® X10SLD-HF (-OEM)	SUPER® X10SRD-F
Chipset	Intel® C224 chipset Intel® C226 chipset (-OEM)	Intel® C612 Chipset
System Memory (Max.)*	8 set of up to 32GB ECC UDIMM, DDR3-1600 MHz in 4 DIMM slots	4 DIMMs per node, support up to 512GB ECC 3DS LRDIMM / 256GB ECC LRDIMM / 128GB ECC RDIMMS 2400/2133/1866/1600 MHz Memory
Expansion Slots	8 set of PCI-E 3.0 x8 low-profile slot and 8 set of Micro-LP slots (Micro-LP upgradable)	8 set of 1 PCI-E 3.0 x8 (low profile) and 8 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	8 set of Intel® C224 controller for 2 SATA3 (6Gbps) ports; RAID 0,1; Selected low-profile RAID or HBA RAID card to support SAS HDD	8 set of Intel® C612 for 2 SATA3 (6Gbps) ports; RAID 0, 1; Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller	8 set of Dual LAN with 2x Intel I350 Gigabit Ethernet controllers
VGA/Audio	8 set of AST2400 VGA	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog	8 set of Dedicated Management LAN port
Drive Bays	8 set of 2x 3.5 hot-swap SAS/SATA3 (6Gbps) HDDs	8 set of 2 x 3.5 hot-swap SATA3/SAS (6Gbps) drive bays
Peripheral Bays	1620W Redundant <b>Platinum Level</b> high-efficiency power supplies	1620W Redundant <b>Platinum Level</b> high-efficiency power supplies
Power Supply	4x 8cm Heavy duty fans with optimal cooling zone	4x 8cm hot-swap cooling fans with fan speed control
Cooling System	3U Rackmount 438.4 x 132.5 x 589mm (17.26 x 5.21 x 23.2 )	3U Rackmount 387 x 132 x 585mm (15.25" x 5.2" x 23")
Form Factor	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2 x 3.5 x 28.46 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

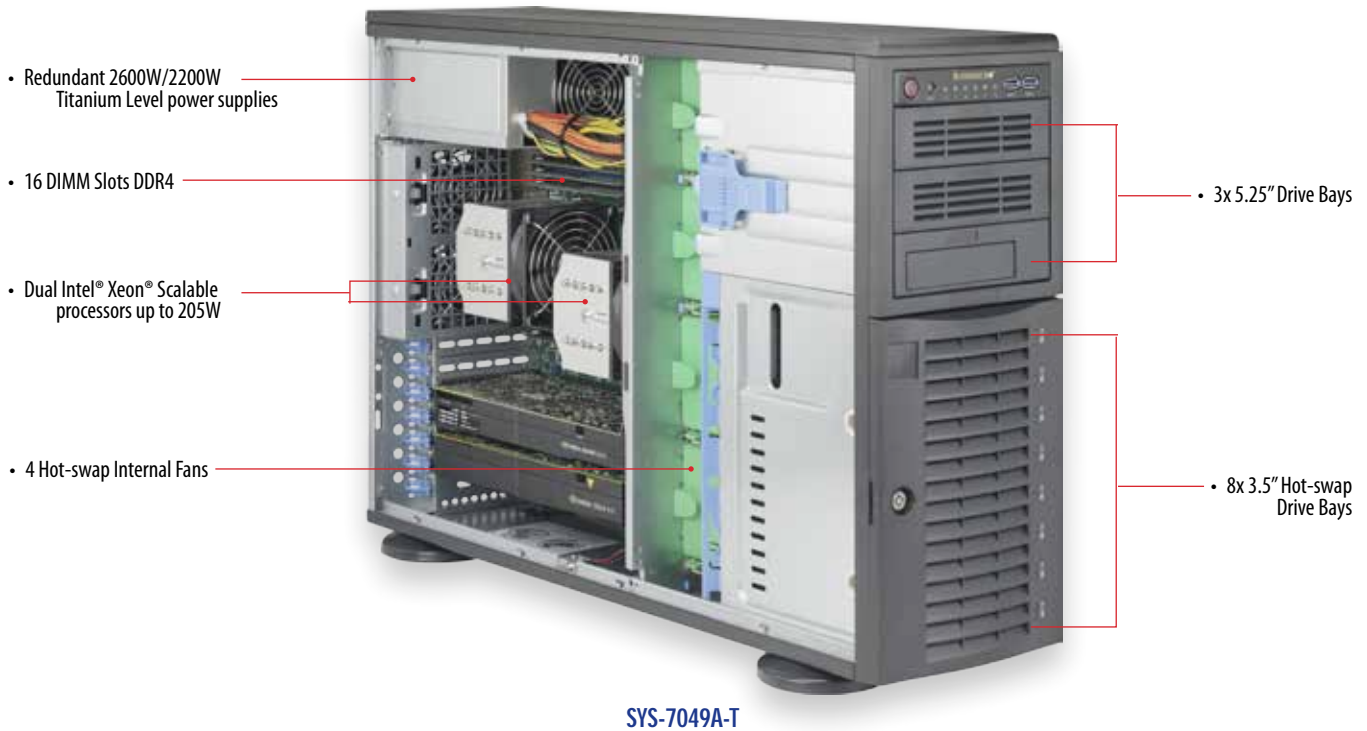
# X11 SuperWorkstation

Intel® Xeon® Scalable Processors Supported



Server Grade Quality Workstations for High Performance Workloads

- **Compact DP Workstation (SYS-7039A-i)**
- **High End DP Workstation (SYS-7049A-T)**
- **GPU Optimized DP Workstation (SYS-7049GP-TRT)**



## Server Grade Quality for Knowledge Workers

Supermicro's new generation X11 SuperWorkstations are optimized for applications requiring powerful graphics capabilities including rendering, image processing, scientific and engineering tasks. With rich multimedia features, these systems are also the perfect choice for digital entertainment.

Supermicro's server grade SuperWorkstation motherboards support up to: 2TB ECC DDR4-2666MHz memory in 16 DIMM slots, 6 PCI-E slots including 3 PCI-E 3.0 x16 slots and 1 PCI-E x4 (in x8) for GPU/Coprocessor cards, 8 ports of Broadcom® 3008 SAS 3.0 (12Gbps) with Software RAID, and dual Gigabit Ethernet LAN ports. The extremely feature-rich workstations also feature Other useful workstation features include 7.1 HD audio, 11 USB ports (6 USB 3.0), Thunderbolt AOC, 7+ year product life cycle, and 205160W CPU support for exceptional performance.

The workstations are available in Compact DP, High-End DP and GPU-Optimized workstation configurations.



## X11 SuperWorkstation

Compact High-Performance



## X11 SuperWorkstation

Compact High-Performance



MODEL	SYS-7039A-i	SYS-7049A-T
Processor Support	Intel® Xeon® Processor Scalable Family - Skylake Dual Socket P (LGA 3647) supported; 2 UPI up to 10.4 GT/s; CPU TDP support 205W	Intel® Xeon® Processor Scalable Family - Skylake Dual Socket P (LGA 3647) supported; 2 UPI up to 10.4 GT/s; CPU TDP support 205W
Key Applications	2D/3D and CAD Applications 3D Rendering CAD/CAM/CAE Digital Content Creation Oil and Gas Simulation Research lab/National Lab	2D/3D and CAD Applications 3D Rendering CAD/CAM/CAE Digital Content Creation Oil and Gas Simulation Research lab/National Lab
Outstanding Features	Whisper quiet and compact Multiple GPU support	Tower or 4U Rackmount System Multiple GPU support
Serverboard	SUPER <sup>®</sup> X11DAI-N	SUPER <sup>®</sup> X11DAI-N
Chipset	Intel® C621 chipset	Intel C621
System Memory (Max.)*	Up to 2TB 3DS ECC LRDIMM, DDR4-2666MHz, in 16 DIMM slots	Up to 2TB 3DS ECC LRDIMM, DDR4-2666MHz, in 16 DIMM slots
Expansion Slots	4 PCI-E 3.0 x16; 2 PCI-E 3.0 x8	4 PCI-E 3.0 x16; 2 PCI-E 3.0 x8
Onboard Storage Controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	N/A	N/A
VGA/Audio	1 VGA, 1 Aspeed AST2500 BMC;	1 VGA D-Sub Connector
Management	Intel® Node Manager; IPMI2.0; SPM; SSM; SUM; SuperDoctorfi 5; Watchdog;	IPMI2.0
Drive Bays	4x 3.5 fixed drive bay, optional 4x 2.5 fixed drive bay	8x 3.5 hot-swap SAS/SATA drive bay
Peripheral Bays	2x 5.25 drive bays	3x 5.25 drive bays
Power Supply	1200W High-efficiency (Platinum level) PWS	1200W High-efficiency (Platinum level) PWS
Cooling System	1x 12cm rear exhaust fan; 1x 12cm (front) cooling fan	2 Super quiet PWM chassis fan & 1 Super quiet rear fan with Optimal Fan Speed Control
Form Factor	Mid-Tower ; Enclosure: 193 x 424 x 525mm (7.6 x 16.7 x 20.68 )	4U Tower or Rackmount; Enclosure: 178 x 452 x 648mm (7 x 17.8 x 25.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## SuperServer®

High Performance Super Workstation, Versatile Features & I/O Access



## SuperWorkstation



MODEL	SYS-5039A-iL	SYS-5039A-I
Processor Support	6th Generation Intel® Core i7 Processor, Intel® Core i5 Processor, Intel® Core i3 Processor product families; Intel® Xeon® processor E3-1200 v5 product families	Intel® Xeon® Processor Skylake-W Intel® Xeon® Processor W Family
Key Applications	CAD/CAM/CAE Digital Imaging Entry-Level Workstation Medical Applications Oil & Gas Simulation & Automation	High Performance Single Socket Workstation Designed for 2D/3D content creation professionals
Outstanding Features	Cost effective UP platform SATA 3.0 (6Gbps) support	Versatile storage options Multi-GPU support
Serverboard	SUPER® X11SAE	SUPER® X11SRA
Chipset	Intel® C236 chipset	Intel® C422 chipset
System Memory (Max.)*	Up to 64GB Unbuffered ECC/non-ECC, DDR4-2133MHz in 4 DIMM slots	Up to 256GB Registered ECC, DDR4-2666MHz in 8 DIMM slots
Expansion Slots	2 PCI-E 3.0 x16 (x16/NA or x8/x8); 2 PCI-E 3.0 x1 (in x4); 2 PCI-32 Slots	PCI-E slot #1 supports (x4) and slot #4 (x16) is disabled when an Intel Core i7-5820K is installed
Onboard Storage Controller	Intel® C236 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10+ 1 PCI-E M.2(PCI-E x4, 2242/2260/2280)(No Raid Support)	Intel® C422 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10*IRST enabled, only SATA2 to SATA5 support RAID;
Connectivity	Single LAN with Intel® Ethernet Controller i210-AT; Single LAN with Intel® PHY I219LM LAN controller	N/A
VGA/Audio	1 DVI - D, 1 DP (DisplayPort), 1 HDMI ALC 888S HD Audio	N/A
Management	AMT; SuperDoctor® 5; vPro; Watchdog;	AMT; SuperDoctor® 5; Watchdog;
Drive Bays	4x 3.5 internal fixed drive bays; Optional 4x 2.5 internal fixed drive bays	4x 3.5 fixed drive bay 4x 2.5 fixed drive bay
Peripheral Bays	2x standard 5.25 drive bays; 1x 3.5 device bay	2x standard 5.25 drive bay 1x card reader module
Power Supply	500W high-efficiency power supply	No Redundant 1 Qty. PWS-903-PQ
Cooling System	1x 12cm (1859 RPM)	1x 12cm rear exhaust fan; 1x 12cm (front) cooling fan
Form Factor	Mid-Tower 424 x 193 x 525mm (16.7 x 7.6 x 20.68 )	Mid-Tower 16.7 (424mm) x 7.6 (193mm) x 20.68 (525mm)(16.7 x 7.6 x 20.68 ) (21.38 x 11.97 x 25.28 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## SuperWorkstation

High-End Desktop Designed For Power Users



## SuperWorkstation

Thunderbolt Support, Supports 2 GPU/Coprocessor



MODEL	SYS-5039AD-I	SYS-7038A-i
Processor Support	Intel® Core™ i5 X-series Processor Intel® Core™ i7 X-series Processor Intel® Core™ i9 Extreme X-series Processor Intel® Core™ i9 X-series Processor	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s (up to 160W)
Key Applications	High-End Desktop Extreme Gaming High-performance computing Simulation and Creation Design	2D/3D and CAD Applications 3D Rendering CAD/CAM/CAE Digital Content Creation Digital Imaging
Outstanding Features	IPMI 2.0 Management 5Gb LAN Supports up to 3 double-width GPUs CPU and Memory Overclocking Support Metallic reinforced PCIe and memory slots	Thunderbolt 2.0 AOC Support Support 2 double width GPUs + 1 single width graphic card 6x USB 3.0 ports Up to 160W CPU support
Serverboard	SUPER● <sup>®</sup> C9X299-PGF	SUPER● <sup>®</sup> X10DAi
Chipset	Intel® X299 chipset	Intel® C612 Chipset
System Memory (Max.)*	Up to 128GB Unbuffered non-ECC, DDR4-2666MHz in 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	4 PCI-E 3.0 x16; ***4xPCIe3.0 x16 Slots(8/NA/16/16 or 8/8/8/16 or NA/4/8/16(Skylake-X 28 Lanes) or NA/4/4/8(Kabylake-X), 1xPCIe3.0x1 slots***	3 PCI-E 3.0 x16 (2 double-width, 1 single-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 3.0 x4 (1 in x16 slot), Support Thunderbolt 2.0 AOC
Onboard Storage Controller	6 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Connectivity	N/A	Dual LAN with Intel® i210 Gigabit Ethernet Controller
VGA/Audio	1 VGA	7.1 HD Audio
Management	SuperDoctor <sup>®</sup> 5; Watchdog;	NMI, SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays	6x 3.5" fixed drive bay 4x 2.5" fixed drive bay	4x 3.5" internal fixed drive bays; optional 4x 2.5" internal fixed drive bays
Peripheral Bays	2x standard 5.25" drive bay	2x standard 5.25" drive bays; 1x 3.5" device bay
Power Supply	ATX 750W Multi-output Power supply with modular cable 80Plus Gold,	900W Gold Level Multi-Output Power Supply
Cooling System	2x 12cm front cooling fan; 1x 12cm rear exhaust fan;	2x 12cm (1859 RPM)
Form Factor	Mid-Tower 7.9" (200mm) x 18.1" (460mm) x 19.4" (493mm); Enclosure: 201 x 460 x 493mm (7.9" x 18.1" x 19.4") Package: 361 x 632 x 610mm (14.2" x 24.9" x 24")	Mid-Tower 424 x 193 x 525mm (16.7" x 7.6" x 20.68")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





Thunderbolt Support  
Supports 2 GPU/Coprocessor



Thunderbolt Support  
Supports 4 GPU/Coprocessor



MODEL	SYS-7048A-T	SYS-7048GR-TR
Processor Support	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s (up to 160W)	Dual Intel® Xeon® Processor E5-2600 v4/v3 product families supported; QPI up to 9.6GT/s
Key Applications	2D/3D and CAD Applications 3D Rendering CAD/CAM/CAE Digital Content Creation Digital Imaging	HPC cluster computer nodes Simulation and Creation Design Imaging and Computer Vision
Outstanding Features	Tower or 4U Rackmount System Thunderbolt 2.0 AOC Support Support 2 double-width + 1 single-width GPUs/Coprocessor 8x 3.5 hot-swap drive bays Up to 160W CPU support	16 DIMM slots 2000W Redundant Titanium Level high-efficiency power supplies 16 DIMM slots 8 Hot-swap 3.5 SATA/SAS drive bays IPMI 2.0 + KVM with dedicated LAN 7.1 HD Audio Header 4 x PCI-E 3.0 x16 slots, 2 x PCI-E 3.0 x8 (1 in x16), 1 x PCI-E 2.0 x4 (in x8)
Serverboard	SUPER® X10DAi	SUPER® X10DRG-Q
Chipset	Intel® C612 Chipset	Intel® C612 chipset
System Memory (Max.)*	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM or RDIMM DDR4-2400MHz in 16 DIMM slots
Expansion Slots	3 PCI-E 3.0 x16 (2 double-width, 1 single-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 3.0 x4 (1 in x16 slot), Support Thunderbolt 2.0 AOC	4 PCI-E 3.0 x16 (double-width), 2 PCI-E 3.0 x8 (1 in x16 slot), 1 PCI-E 2.0 x4 (in x8), Support Thunderbolt 2.0 AOC
Onboard Storage Controller	Intel® C612 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C612 AHCI controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	Dual LAN with Intel® i210 Gigabit Ethernet Controller	Dual LAN with Intel® i350 Gigabit Ethernet Controllers
VGA/Audio	7.1 HD Audio	AST2400 VGA
Management	NMI, SuperDoctor® 5, Watchdog	IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8x 3.5 hot-swap SAS/SATA drive bay	8x hot-swap 3.5 SAS/SATA drive bays
Peripheral Bays	3x standard 5.25 drive bays	3x 5.25 drive bays in storage module - rotates 90° for Rackmount, 1x 3.5 fixed drive bay
Power Supply	1200W Platinum Level Multi-Output Power Supply	2000W Redundant Titanium Level high-efficiency power supplies with PC & PMBus
Cooling System	2x 2800 RPM fan; 1x 2700 RPM fan	4x 92x38mm 4-pin PWM Middle Cooling Fans, 2x 80x38mm 4-pin PWM Rear Exhaust Fans
Form Factor	Tower/4U Rackmount 452 x 178 x 647mm (17.8 x 7 x 25.5 )	4U Tower 462 x 178 x 673mm (18.2 x 7 x 26.5 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

High Performance Super Workstation, Versatile Features

High Performance Super Workstation, Versatile Features & I/O Access

Gaming System, Extreme Performance, Triple Display Support



MODEL	SYS-5038A-i	SYS-5038A-iL	SYS-5038AD-T
Processor Support	Single Intel® Xeon® Processor E5-2600 v3, Intel® Xeon® Processor E5-1600 v3, 4th gen. Intel® Core i7 processor product families	4th Generation Intel® Core i7 Processor, Intel® Core i5 Processor, Intel® Core i3 Processor, Intel® Xeon® processor E3-1200 v3 product families	4th Generation Intel® Core i7 Processor, Intel® Core i5 Processor, and Intel® Core i3 Processor product families
Key Applications	Powerful Multitasking Workstation 2D/3D and CAD Applications High Performance Computer Cluster (HPCC)	CAD/CAM/CAE Digital Imaging Entry-Level Workstation High-performance computing Medical Applications Oil & Gas Simulation & Automation	Gaming HPC Media/Streaming Multimedia Appliance
Outstanding Features	Whisper-quiet operation (21dB) SATA 3.0 (6Gbps) support 900W Gold Level Multi-Output power supply	Cost effective UP platform SATA 3.0 (6Gbps) support	SATA 3.0 (6Gbps) support 900W Gold Level Multi-Output power supply
Serverboard	SUPER● X10SRA	SUPER● X10SAE	SUPER● C7Z87-OCE
Chipset	Intel® C612 chipset	Intel® C226 chipset	Intel® Z87 chipset
System Memory (Max.)*	Up to 512GB ECC DDR4 2133MHz LRDIMM or 64GB ECC/non-ECC UDIMM (available with Core i7 only); 8 DIMM slots	Up to 32GB ECC/Non-ECC UDIMM in 4 slots; DDR3 up to 1600 MHz	Up to 32GB Unbuffered non-ECC, DDR3-1600 MHz in 4 DIMM slots(support overclocking up to 2133MHz (OC**)/2200MHz (OC**)/2400MHz(OC**)/2600MHz (OC*)/2800MHz (OC**)/3000MHz (OC**))
Expansion Slots	4x PCI-E 3.0 x16 slots (runs at 16/16/NA/8 or 16/8/8/8) 2x PCI-E 2.0 x1 (in x4) slots	2 PCI-E 3.0 x16 (x16/NA or x8/x8); 3 PCI-E 2.0 x1 in x4 slots 2 PCI-E 32-bit	3 PCI-E 3.0 x16 slots (16/NA/NA or 8/8/NA or 8/4/4); 3 PCI-E 2.0 x1 (in x4) slot)
Onboard Storage Controller	SATA3 (6Gbps) via C612 controller (RAID 0, 1, 5, 10 support)	Intel® C226 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10; ASM1061 controller for 2 SATA3 (6Gbps) ports; RAID 0,1	Intel® Z87 controller for 6 SATA3 (6Gbps) ports; RAID 0,1,5,10; ASM1061 controller for 2 SATA3 (6Gbps) ports
Connectivity	Dual Gigabit LAN with Intel® Ethernet Controller I210-AT	Single LAN with Intel® Ethernet Controller I210; Single LAN with Intel® Ethernet Controller I217	Single LAN with Intel® Ethernet Controller i210AT; Single LAN with Intel® Ethernet Controller i217V
VGA/Audio	ALC 1150 HD Audio	1 DVI, 1 VGA, 1 HDMI, 1 Display Port; Triple Display Capable, ALC 1150HD	1 DVI, 1VGA, 1 HDMI and 1 Thunderbolt port; ALC 1150HD
Management	SuperDoctor III; SuperDoctor® 5; Watchdog	AMT; SuperDoctor III; vPro; Watchdog	SuperDoctor III; Watchdog
Drive Bays	4x 3.5 internal fixed drive bays; Optional 4x 2.5 internal fixed drive bays	4x 3.5 internal fixed drive bays; Optional 4x 2.5 internal fixed drive bays	3x 3.5 internal hot-swap drive bays, 2x 3.5 front hot-swap drive bays & optional front 4x 2.5 hot-swap drive bay cage
Peripheral Bays	2x standard 5.25 optical device bays; 1x standard 3.5 device bay	2x standard 5.25 optical device bays; 1x standard 3.5 device bay	2x standard 5.25 drive bays; 1x standard 3.5 drive bay
Power Supply	900W Gold Level high-efficiency power supply	500W high-efficiency power supply	900W Gold Level Multi-Output power supply
Cooling System	1x 12cm (1859 RPM) rear exhaust fan	1x 12cm (1859 RPM) rear exhaust fan	1x 12cm rear exhaust fan, 1x 12cm front cooling fan; Support liquid cooling ready
Form Factor	Mid-Tower 424 x 193 x 525mm (16.7 x 7.6 x 20.68 )	Mid-Tower 424 x 193 x 525mm (16.7 x 7.6 x 20.68 )	Gaming Mid-Tower 220 x 510 x 580mm (8.66 x 20.08 x 22.83 )

\* Please check with your Supermicro sales representative and website for compatibility and configuration details









**IoT/Embedded**  
Intel® Atom® Processor Denverton C3850,  
SoC, 12 Cores, Rear I/O Short Depth Server



**IoT/Embedded**  
Intel® Atom® Processor Denverton C3758,  
SoC, 8 Cores, Front I/O, Short-Depth Server



MODEL	SYS-5019A-12TN4	SYS-5019A-FTN4
Processor Support	Intel® Atom™ Processor Denverton C3850, SoC, 12 Cores, 25W	Intel® Atom™ Processor Denverton C3758, SoC, 8 Cores, 25W
Key Applications	<ul style="list-style-type: none"> <li>• Virtual Router</li> <li>• FireWall Applications</li> <li>• Virtualization</li> <li>• Low Power, Low Cost Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Network Security Appliance</li> <li>• Edge Computing Server</li> <li>• Virtualization Server</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Short Depth</li> <li>• Low Power</li> </ul>	<ul style="list-style-type: none"> <li>• Intel® Quick Assist Technology</li> <li>• 256GB DDR4 ECC RDIMM/64GB ECC UDIMM</li> </ul>
Serverboard	SUPER <sup>®</sup> A2SDi-LN4F	SUPER <sup>®</sup> A2SDi-8C-HLN4F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 64GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-2400MHz, in 4 DIMM slots	Up to 256GB Registered ECC DDR4-2400MHz or 64GB Unbuffered ECC/Non-ECC DDR4-2400MHz; in 4 DIMM slots
Expansion Slots	1 PCI-E 3.0 x4, 1 mini-PCIe with mSATA supports (half card only), 1 M.2(M Key for SSD 2242/80, PCIe/SATA3.0)	1 PCI-E 3.0 x4, 1 x M.2 (M key for SSD, 2242/80, PCIe3.0 x2 or SATA3)
Onboard Storage Controller	SoC controller for 4 SATA3 (6 Gbps) ports	SoC controller for 4 SATA3 (6 Gbps) ports
Connectivity	4x 1GbE LAN, 1 dedicated management port, 2 USB3.0	4x 1GbE LAN, 1x dedicated IPMI LAN, 2x USB 2.0
VGA/Audio	VGA via BMC	VGA via BMC
Management	IPMI 2.0	IPMI 2.0
Drive Bays	2x 3.5" or 4 x 2.5" HDD	2x 3.5" or 4x 2.5" HDD
Peripheral Bays	N/A	N/A
Power Supply	200W Low Noise AC-DC power supply with PFC	200W Low Noise AC-DC power supply with PFC
Cooling System	2x 40x28mm 4-PIN PWM Fan(FAN-0065L4, 13K RPM)	2x 40x28mm 4-PIN PWM Fan (FAN-0065L4, 13K RPM), Optional 1x 40x28mm 4-PIN PWM Fan
Form Factor	1U Short Depth Rackmount; Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8") Package: 655 x 155 x 465mm (25.8" x 6.1" x 18.3")	1U Short Depth Rackmount; Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8") Package: 655 x 155 x 465mm (25.8" x 6.1" x 18.3")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**IoT/Embedded**  
Intel® Atom® Processor C3858 Denverton SoC, 12 Cores

**IoT/Embedded**  
Intel® Atom® Processor Denverton C3558 SoC, 4 Cores



MODEL	SYS-E300-9A	SYS-E200-9A
Processor Support	Intel® Atom™ Processor Denverton C3858, SoC 12 Cores, 25W, 2.0 GHz	Intel® Atom™ Processor C3558, SoC 4 Cores, 16W, 2.2 GHz
Key Applications	<ul style="list-style-type: none"> <li>• Embedded Networking Applications</li> <li>• Network Security Appliance</li> <li>• FireWall Applications</li> <li>• Virtualization Server</li> </ul>	<ul style="list-style-type: none"> <li>• Virtualization Server</li> <li>• Virtual-CPE White Box</li> <li>• Entry-level Network Appliance</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Best Performance per Watt</li> <li>• 7 year life cycle</li> <li>• IPMI 2.0 management with dedicated LAN</li> </ul>	<ul style="list-style-type: none"> <li>• NEW flexible I/O model for peripheral connectivity</li> <li>• TDP lowered and increased from Rangeley</li> <li>• 8 or more SATA III ports – Potentially with port multiplier support*</li> <li>• Significantly improved IPC compared to the Avonton/ Rangeley cores. We expect a 70% or so raw performance improvement per core</li> </ul>
Serverboard	SUPER® A2SDi-TP8F	SUPER® A2SDi-4C-HLN4F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 64GB Unbuffered ECC/non-ECC SO-DIMM, DDR4-2400MHz, in 4 DIMM slots	256GB Registered ECC, DDR4-2133MHz 64GB Unbuffered ECC/non-ECC, DDR4-2133MHz in 4 DIMM slots
Expansion Slots	1 PCI Express 3.0 x4 AOC slot (LP), 1 M.2(M Key for SSD 2242/80, PCIe/SATA3.0), 1 Mini-PCIe /w mSATA Half Size	1 M.2 (M key , 2242/2280, PCIe3.0 x2 or SATA3)
Onboard Storage Controller	SoC controller for 4x SATA3.0	Up to 8 SATA3 (6 Gbps) ports via SoC
Connectivity	2x 10GbE SFP+, 2x 10GbE LAN, 4x 1GbE LAN, 1 dedicated IPMI LAN, 2 USB 3.0	4x 1GbE LAN, 1 dedicated IPMI LAN, 2 USB 2.0, 1 USB 3.0 type A
VGA/Audio	VGA via BMC	VGA via BMC
Management	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor®5, Watchdog	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor®5, Watchdog
Drive Bays	2x 2.5" fixed drive bay: one with bracket, one on base mount. (1x 2.5" fixed drive bay when AOC area is occupied.)	1x 2.5" SSD fixed drive bay
Peripheral Bays	N/A	N/A
Power Supply	Lockable 12V DC 84W power adapter	Lockable 12V DC 60W power adapter
Cooling System	2x 40x28mm 4-PIN PWM Fan(FAN-0065L4, 13K RPM)	2x 40x28mm 4-PIN PWM FAN(FAN-0065L4, 13K RPM)
Form Factor	1U Compact Box: Enclosure: 254 x 43 x 226mm (10" x 1.7" x 8.9") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")	1U Compact Box: Enclosure: 195 x 43 x 226mm (7.68" x 1.7" x 8.9") Package: 381 x 142 x 276mm (15" x 5.59" x 10.87")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**IoT/Embedded**  
Intel® Atom® Processor Denverton C3558/C3758  
SoC, 4/8 Cores

**IoT/Embedded**  
Intel® Atom® Processor Denverton C3558/C3758  
SoC, 4/8 Cores



MODEL	SYS-E300-9A-4CN8/8CN8	SYS-E300-9A-4C/8C
Processor Support	-4CN8: Intel® Atom™ Processor Denverton C3558, SoC 4 Cores, 16W, 2.2 GHz -8CN8: Intel® Atom™ Processor Denverton C3758, SoC 8 Cores, 25W, 2.2 GHz	-4C: Intel® Atom™ Processor Denverton C3558, SoC 4 Cores, 16W, 2.2 GHz -8C: Intel® Atom™ Processor Denverton C3758, SoC 8 Cores, 25W, 2.2 GHz
Key Applications	<ul style="list-style-type: none"> <li>Virtual-CPE White Box Solution</li> <li>Network Security Appliance</li> <li>Embedded IoT Gateway</li> <li>Networking Edge Device</li> </ul>	<ul style="list-style-type: none"> <li>Network Security Appliance</li> <li>Embedded IoT Gateway</li> <li>Networking Edge Device</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>Best Performance per Watt</li> <li>7 year life cycle</li> <li>IPMI 2.0 management with dedicated LAN</li> </ul>	<ul style="list-style-type: none"> <li>Best Performance per Watt</li> <li>7 year life cycle</li> <li>IPMI 2.0 management with dedicated LAN</li> </ul>
Serverboard	-4CN8: SUPER●* A2SDV-4C-LN8F -8CN8: SUPER●* A2SDV-8C-LN8F	-4C: SUPER●* A2SDI-4C-HLN4F -8C: SUPER●* A2SDI-8C-HLN4F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 256GB Registered ECC DDR4-2400MHz, Up to 64GB Unbuffered ECC/Non-ECC DDR4-2400MHz; in 4 DIMM slots	Up to 256GB Registered ECC DDR4-2400MHz, Up to 64GB Unbuffered ECC/Non-ECC DDR4-2400MHz; in 4 DIMM slots
Expansion Slots	-4CN8: 1x PCI Express 3.0 x2 AOC slot (LP) when only 1 SSD populated, 1 M.2 B Key 3042/2280(PCIe 3.0 x2) -8CN8: 1x PCI Express 3.0 x4 AOC slot (LP) when only 1 SSD populated, 1x M.2 M Key 2242/2280 (PCIe 3.0 x2 or SATA3.0), 1x M.2 B Key 3042/2280(PCIe 3.0 x2)	1x PCI Express 3.0 x2 AOC slot (LP), 1x M.2 M Key 2242/2280(PCIe 3.0 x2)
Onboard Storage Controller	SoC controller for 4x SATA3.0	SoC controller for 4x SATA3.0
Connectivity	8x 1GbE, 1 dedicated IPMI LAN, 2 USB3.0, Optional Console port by request	4x 1GbE, 1 dedicated IPMI LAN, 2 USB 2.0, Optional Console port by request
VGA/Audio	VGA via BMC	VGA via BMC
Management	OOB, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor®5, Watchdog	OOB, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor®5, Watchdog
Drive Bays	1x 2.5" fixed drive bay when AOC area is not occupied.	1x 2.5" fixed drive bay (2x 2.5" fixed drive bay when AOC area is not occupied.)
Peripheral Bays	N/A	N/A
Power Supply	Lockable 12V DC 84W power adapter	Lockable 12V DC 84W power adapter
Cooling System	1x 40x28mm 4-PIN PWM Fan(FAN-0065L4, 13K RPM), Optional 1x Fan by request	1x 40x28mm 4-PIN PWM Fan(FAN-0065L4, 13K RPM), Optional 1x Fan by request
Form Factor	1U Compact Box; Enclosure: 254 x 43 x 226mm (10" x 1.7" x 8.9") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")	1U Compact Box; Enclosure: 254 x 43 x 226mm (10" x 1.7" x 8.9") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**IoT/Embedded**  
8th Generation Intel® Core™ i Processor  
Edge Computing

**IoT/Embedded**  
IOT Gateway with Intel Quark SoC 2.2W



MODEL	SYS-E300-9C	SYS-E100-8Q
Processor Support	8th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processor	Intel® Quark™ SoC X1021; CPU TDP support 2.2W
Key Applications	<ul style="list-style-type: none"> <li>• IoT Edge Computing</li> <li>• DVR/NVR</li> <li>• Machine Automation</li> <li>• Digital Signage</li> <li>• Medical Applications</li> <li>• IoT Gateway</li> </ul>	<ul style="list-style-type: none"> <li>• IoT Gateway for Smart Factory, Smart Building, Smart Home</li> <li>• Long Life Cycle Support</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Coffee Lake 8th Gen Core i3/i5/i7</li> <li>• Embedded long life</li> <li>• 1U Box Edge Devices</li> <li>• TPM onboard</li> </ul>	<ul style="list-style-type: none"> <li>• 2x 1GbE LAN</li> <li>• 2 Mini PCIe sockets, 1 Zigbee socket</li> <li>• 2 USB2.0 (device and host)</li> <li>• 1 RS232, 1 RS485</li> <li>• Analog Inputs 8 channel 12 bits and Digital I/O 8 bit through screw terminal connector</li> </ul>
Serverboard	SUPER● X11SCV-Q	SUPER● A1SQN
Chipset	Intel® Q370 chipset	System on Chip
System Memory (Max.)*	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2666MHz, in 2 DIMM slots	Onboard 512MB DDR3 ECC memory
Expansion Slots	1x PCI Express 3.0 x16 AOC slot (LP) and M.2 M key: SATA/PCI-E 3.0 x4, support 2242/2280 length; M.2 E KEY: PCI-E 3.0 x1, support 2230 length	2x Mini-PCI-E slots and 1x ZigBee module socket
Onboard Storage Controller	Q370 controller for 2 SATA3 ports; RAID 0,1	Micro SDHC up to 32GB slot
Connectivity	2 X 1GbE LAN with AMT, 4 x USB 3.1 (2 type A & 2 type C in rear), HD Audio (Mic In/Line Out)	2x 1GbE LAN, 2 USB2.0 (device and host), RS485 & Analog Inputs 8 channel 12 bits & Digital I/O 8 bit through screw terminal connector, 1 RS232
VGA/Audio	1 DVI-D, 1 HDMI, 1 DP (DisplayPort), 3 Independent displays; 1 eDP (Embedded DisplayPort)	N/A
Management	AMT, NMI, SuperDoctor® 5, vPro, Watchdog	Watchdog
Drive Bays	2x 2.5" fixed drive bay	N/A
Peripheral Bays	N/A	N/A
Power Supply	Lockable 12V DC 150W power adapter	Lockable 12V DC 15W power adapter (international outlet support)
Cooling System	2x 4cm high performance PWM fan; optional for 1x fan to add-on card area cooling	Fanless
Form Factor	1U Compact Box; Enclosure: 254 x 43 x 226mm (10" x 1.7" x 8.9") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")	IOT Gateway; Enclosure: 135 x 33 x 109mm (5.3" x 1.3" x 4.3") Package: 287 x 69 x 201mm (11.3" x 2.7" x 7.9")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**IoT/Embedded**  
Fanless Compact BOX PC

**IoT/Embedded**  
Fanless Compact BOX PC

**IoT/Embedded**  
Fanless Compact BOX PC



MODEL	SYS-E100-9S	SYS-E100-9S-E	SYS-E100-9S-L
Processor Support	7th Generation Intel® Core™ i7-7600U Processor	7th Generation Intel® Core™ i5-7300U Processor	7th Generation Intel® Core™ i3-7100U Processor
Key Applications	<ul style="list-style-type: none"> <li>• IoT Edge Computing</li> <li>• Kiosk, Interactive information system</li> <li>• Environmental Monitor</li> </ul>	<ul style="list-style-type: none"> <li>• IoT Edge Computing</li> <li>• Kiosk, Interactive information system</li> <li>• Environmental Monitor</li> </ul>	<ul style="list-style-type: none"> <li>• IoT Edge Computing</li> <li>• Kiosk, Interactive information system</li> <li>• Environmental Monitor</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• 1 HDMI and 1 Display Port</li> <li>• 1 USB3.1, 2 USB 3.0, 4 USB 2.0</li> <li>• 4 COM (RS-232/422/485), 1 DIO via DB9</li> <li>• 2 Gigabit Ethernet Ports</li> <li>• TPM2.0 onboard</li> </ul>	<ul style="list-style-type: none"> <li>• 1 HDMI and 1 Display Port</li> <li>• 1 USB3.1, 2 USB 3.0, 4 USB 2.0</li> <li>• 4 COM (RS-232/422/485), 1 DIO via DB9</li> <li>• 2 Gigabit Ethernet Ports</li> <li>• TPM2.0 onboard</li> </ul>	<ul style="list-style-type: none"> <li>• 1 HDMI and 1 Display Port</li> <li>• 1 USB3.1, 2 USB 3.0, 4 USB 2.0</li> <li>• 4 COM (RS-232/422/485), 1 DIO via DB9</li> <li>• 2 Gigabit Ethernet Ports</li> <li>• TPM2.0 onboard</li> </ul>
Serverboard	SUPER® X11SSN-H-WOHS	SUPER® X11SSN-E-WOHS	SUPER® X11SSN-L-WOHS
Chipset	System on Chip	System on Chip	System on Chip
System Memory (Max.)*	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots	Up to 32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots
Expansion Slots	1 Full size Mini-PCIe; 1 M.2 2280 B-Key	1 Full size Mini-PCIe; 1 M.2 2280 B-Key	1 Full size Mini-PCIe; 1 M.2 2280 B-Key
Onboard Storage Controller	1 M.2 2280 B-Key for SATA SSD	1 M.2 2280 B-Key for SATA SSD	1 M.2 2280 B-Key for SATA SSD
Connectivity	Dual LAN with Intel®PHY I219LM, 1 USB3.1, 2 USB3.0, 4 USB2.0, 4 COM (RS-232/422/485), 1 DIO via DB9, TPM2.0 onboard	Dual LAN with Intel®PHY I219LM, 1 USB3.1, 2 USB3.0, 4 USB2.0, 4 COM (RS-232/422/485), 1 DIO via DB9, TPM2.0 onboard	Dual LAN with Intel®PHY I219LM, 1 USB3.1, 2 USB3.0, 4 USB2.0, 4 COM (RS-232/422/485), 1 DIO via DB9, TPM2.0 onboard
VGA/Audio	1 DisplayPort, 1 HDMI	1 DisplayPort, 1 HDMI	1 DisplayPort, 1 HDMI
Management	AMT, SuperDoctor®5, vPro, Watchdog	AMT, SuperDoctor®5, vPro, Watchdog	SuperDoctor®5, Watchdog
Drive Bays	N/A	N/A	N/A
Peripheral Bays	N/A	N/A	N/A
Power Supply	Lockable 12V DC 60W power adapter	Lockable 12V DC 60W power adapter	Lockable 12V DC 60W power adapter
Cooling System	Fanless	Fanless	Fanless
Form Factor	1U Box; Enclosure: 195 x 44 x 151mm (7.68" x 1.73" x 5.94") Package: 241 x 140 x 203mm (9.5" x 5.5" x 8")	1U Box; Enclosure: 195 x 44 x 151mm (7.68" x 1.73" x 5.94") Package: 241 x 140 x 203mm (9.5" x 5.5" x 8")	1U Box; Enclosure: 195 x 44 x 151mm (7.68" x 1.73" x 5.94") Package: 241 x 140 x 203mm (9.5" x 5.5" x 8")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**IoT/Embedded**  
IP51 Fanless Compact BOX PC

**IoT/Embedded**  
Supports Wireless communication

**IoT/Embedded**  
Compact Embedded Box PC



MODEL	SYS-E50-9AP	SYS-E50-9AP-WIFI	SYS-E102-9AP-L
Processor Support	Intel® Atom™ Processor x5-E3940	Intel® Atom® processor x5-E3940	Intel® Atom® Processor x5-E3930
Key Applications	<ul style="list-style-type: none"> <li>• IoT Gateway</li> <li>• Commercial Appliance</li> </ul>	<ul style="list-style-type: none"> <li>• IoT Gateway</li> <li>• Commercial Appliance</li> </ul>	<ul style="list-style-type: none"> <li>• Embedded Applications</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• IP51 with plastic chassis design for water/dust proof</li> <li>• Palm-size for space-limited environment</li> <li>• Built-in Antenna</li> </ul>	<ul style="list-style-type: none"> <li>• Built-in Wifi and Antenna</li> <li>• IP51 with plastic chassis design for water/dust proof</li> <li>• Cable-less design for easy maintenance</li> <li>• Fanless design with palm-size dimension</li> </ul>	<ul style="list-style-type: none"> <li>• Building Block Solution for Embedded Applications</li> <li>• Easy integration</li> </ul>
Serverboard	SUPER® A2SAP-H	SUPER® A2SAP-H	SUPER® A2SAN-L
Chipset	System on Chip	System on Chip	System on Chip
System Memory (Max.)*	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM socket	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM socket	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM slot
Expansion Slots	1 Full size Mini-PCIe; 1 Half size Mini-PCIe; 1 M.2 B-Key 2242; 1 M.2 E-Key 2230	1 Full size Mini-PCIe; 1 Half size Mini-PCIe; 1 M.2 B-Key 2242; 1 M.2 E-Key 2230	1 Full Size Mini-PCI-E; 1 M.2 2280 B-Key
Onboard Storage Controller	1 M.2 B-Key 2242 for SATA SSD, 1 SATA 3.0 for 7mm 2.5" SATA SSD	1 M.2 B-Key 2242 for SATA SSD, 1 SATA 3.0 for 7mm 2.5" SATA SSD	1 M.2 B-Key 2280 for SATA SSD, 1 SATA 3.0 for 7mm 2.5" SATA SSD
Connectivity	Dual LAN with Intel® I210-IT, 2 USB3.0, 2 USB2.0, 2 COM (RS-232/422/485), TPM2.0 onboard	Dual LAN with Intel I210-IT, 2 USB3.0, 2 USB2.0, 2 COM (RS-232/422/485), TPM 2.0 onboard, Dual Band Wireless and Bluetooth 4.2	Dual LAN with Intel I210-IT, 2 USB3.0, TPM2.0 onboard
VGA/Audio	2 HDMI	2 HDMI	1 VGA 1 HDMI
Management	SuperDoctor®5, Watchdog	SuperDoctor®5, Watchdog	SuperDoctor®5; Watchdog
Drive Bays	1 SATA 3.0 for 7mm 2.5" SATA SSD	1 SATA 3.0 for 7mm 2.5" SATA SSD	1 SATA 3.0 for 7mm 2.5" SATA SSD
Peripheral Bays	N/A	N/A	N/A
Power Supply	Lockable 12V DC 40W power adapter	Lockable 12V DC 40W power adapter	Lockable 12V DC 40W power adapter
Cooling System	Fanless	Fanless	Passive CPU heat sink and 1x 40mm chassis fans
Form Factor	1U Box: Enclosure: 126 x 44 x 118mm (4.96" x 1.72" x 4.64") Package: 241 x 140 x 203mm (9.5" x 5.5" x 8")	1U Box: Enclosure: 126 x 44 x 118mm (4.96" x 1.72" x 4.64") Package: 241 x 140 x 203mm (9.5" x 5.5" x 8")	1U Box: Enclosure: 190 x 44 x 120mm (7.48" x 1.72" x 4.72") Package: 241 x 140 x 203mm (9.5" x 5.5" x 8")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**IoT/Embedded**  
Extended Temperature Fanless Compact BOX PC

**IoT/Embedded**  
Fanless Compact BOX PC

**IoT/Embedded**  
Industrial Ruggedized Fanless PC



MODEL	SYS-E100-9AP	SYS-E100-9APP	SYS-E100-9AP-IA
Processor Support	Intel® Atom® Processor x5-E3940	Intel® Pentium™ Processor N4200	Intel® Atom® Processor x5-E3940
Key Applications	<ul style="list-style-type: none"> <li>• IoT Gateway for Smart Factory, Smart Building, Smart Home</li> <li>• Kiosk, Interactive information system</li> <li>• Environmental Monitor</li> <li>• Industrial Application</li> </ul>	<ul style="list-style-type: none"> <li>• IoT Gateway for Smart Factory, Smart Building, Smart Home</li> <li>• Kiosk, Interactive information system</li> <li>• Environmental Monitor</li> </ul>	<ul style="list-style-type: none"> <li>• IoT Gateway for Smart Factory, Smart Building</li> <li>• Machine Automation</li> <li>• Industrial Application</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Supports wide-temp: -20~60°C</li> <li>• TPM2.0 onboard</li> <li>• Operational vibration: 5Grms, IEC 60068-2-64</li> <li>• Operational Shock: 30G, IEC 60068-2-27</li> </ul>	<ul style="list-style-type: none"> <li>• Supports temp: 0-60C</li> <li>• TPM2.0 onboard</li> <li>• Operational vibration: 5Grms, IEC 60068-2-64</li> <li>• Operational Shock: 30G, IEC 60068-2-27</li> </ul>	<ul style="list-style-type: none"> <li>• Din-rail Fanless Ruggedized Box PC</li> <li>• 1 Flexible I/O Slot (via MiniPCI-E)</li> <li>• 9-36VDC wide range power input</li> <li>• Supports wide-temp: -20-60C</li> <li>• Operational vibration: 5Grms, IEC 60068-2-64</li> <li>• Operational Shock: 30G, IEC 60068-2-27</li> </ul>
Serverboard	SUPER <sup>®</sup> A2SAN-E-WOHS	SUPER <sup>®</sup> X11SAN-WOHS	SUPER <sup>®</sup> A2SAN-E-WOHS
Chipset	System on Chip	System on Chip	System on Chip
System Memory (Max.)*	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM socket	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM socket	Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM socket
Expansion Slots	1 Full size Mini-PCIe; 1 M.2 2280 B-Key	1 Full size Mini-PCIe; 1 M.2 2280 B-Key	1 Full size Mini-PCIe; 1 M.2 2280 B-Key
Onboard Storage Controller	1 M.2 2280 B-Key for SATA SSD	1 M.2 2280 B-Key for SATA SSD	1 M.2 2280 B-Key for SATA SSD, 1 SATA3 2.5" SSD
Connectivity	Dual LAN with Intel I210-IT, 2 USB3.0, 4 USB2.0, 4 COM (RS-232/422/485), 1 DIO via DB9, TPM2.0 onboard	Dual LAN with Intel I210-IT, 1 USB3.1, 2 USB3.0, 4 USB2.0, 4 COM (RS-232/422/485), 1 DIO via DB9, TPM2.0 onboard	Dual LAN with Intel I210-IT, 2 USB3.0, 4 USB2.0, 4 COM (RS-232/422/485), 1 DIO via DB9, TPM2.0 onboard
VGA/Audio	1 VGA 1 HDMI	1 VGA 1 HDMI	1 VGA 1 HDMI
Management	SuperDoctor <sup>®</sup> 5, Watchdog	SuperDoctor <sup>®</sup> 5, Watchdog	SuperDoctor <sup>®</sup> 5, Watchdog
Drive Bays			



**IoT/Embedded**  
Atom C3338 Denverton SoC, 2 Cores



**IoT/Embedded**  
Atom™ E3940 Apollo Lake SoC, 4 Cores



**IoT/Embedded**  
Intel® 6th/7th Generation Core™ i3, i5, i7 series Intel®, Pentium®, Celeron®



MODEL	SYS-5029A-2TN4	SYS-5029AP-TN2	SYS-5029S-TN2
Processor Support	Intel® Atom® C3338 Denverton Processor, SoC 2 Core, 9W, 1.5 GHz	Intel® Atom™ E3940 Apollo Lake Processor, SoC 4 Cores, 9.5W, 1.6 GHz	Intel® 6th/7th Generation Core™ i3, i5, i7 series Intel®, Pentium®, Celeron®. CPU TDP support up to 65W TDP
Key Applications	<ul style="list-style-type: none"> <li>7 Years Life Cycle</li> <li>Compact Cloud Server</li> <li>Edge Computing Device</li> </ul>	<ul style="list-style-type: none"> <li>Database Processing &amp; Storage</li> <li>High Performance NAS Servers</li> <li>Medical Applications</li> <li>Security Appliance and Video Surveillance</li> <li>Web Server for Small and Medium Business</li> <li>Indoor Kiosk</li> </ul>	<ul style="list-style-type: none"> <li>Database Processing &amp; Storage</li> <li>Web Server for Small and Medium Business</li> <li>Medical Applications</li> <li>Security Appliance and Video Surveillance</li> <li>Indoor Kiosk</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>Quad Gigabit Ethernet LAN</li> <li>Up to 4x hot-swap 3.5" SATA3 drives</li> <li>IPMI 2.0 (dedicated LAN) with Virtual Media/KVM over LAN</li> <li>7 year life cycle</li> </ul>	<ul style="list-style-type: none"> <li>Up to 4 Hot-Swap 3.5" SATA3 HDD, 1 internal 2.5" fixed HDD and 1 M.2 (M key 2242/80 PCIe 2.0x2)</li> <li>Embedded long life</li> <li>2x Gigabit LAN ports</li> <li>Quiet Operation</li> </ul>	<ul style="list-style-type: none"> <li>DP, HDMI and DVI-I: 3 independent displays</li> <li>Remote management via vPro technology</li> <li>2x Gigabit LAN ports</li> <li>Quiet Operation</li> </ul>
Serverboard	SUPER® A2SDi-2C-HLN4F	SUPER® A2SAV	SUPER® X11SSV-Q
Chipset	System on Chip	System on Chip	Intel® Q170
System Memory (Max.)*	Up to 128GB RDIMM or 32GB ECC/NON ECC UDIMM, DDR4-1866MHz in 2 DIMM slots	8GB Unbuffered non-ECC DDR3-1866MHz SO-DIMM in 1 DIMM slot	32GB Unbuffered non-ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots
Expansion Slots	1x PCIe 3.0 x2 (in x4 open ended slot)	1 PCIe 2.0 x2 in x8 slot, 1 M.2 (M key 2242/80 PCIe 2.0x2), 1 Mini-PCIe with mSATA support	1 x PCIe 3.0 x16 slot 1 x M.2 (M key 2242/80 PCIe 3.0x4) 1 x Mini-PCIe with mSATA support
Onboard Storage Controller	SoC controller for 6 SATA3 (6 Gbps) ports	Marvel 88SE9230 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10; SoC controller for 2 SATA3 (6 Gbps) ports	Intel® Q170 Express controller for 5 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
Connectivity	4 x 1GbE LAN, 1 dedicated IPMI LAN, 2 USB2.0	2x 1GbE LAN, 2 USB3.0, 3 USB2.0(2 front, 1 Type A), 1 Serial Port (RJ45) ALC 888S HD Audio	2x 1GbE, 4 USB3.0, 3 USB2.0 (2 front, 1 Type A), 2 RS232 ALC 888S HD Audio
VGA/Audio	VGA via BMC	1 HDMI, 1 DP, 1 VGA or 1 eDP, Intel HD Graphic 3 independent displays	1 HDMI, 1 DP (Display Port), 1 DVI - D, 1 Intel® HD Graphics 3 Independent Displays
Management	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor® 5, Watchdog	vPro and AMT	vPro and AMT
Drive Bays	4x 3.5" hot-swap drive bay, 2x 2.5" fixed drive bay	4x 3.5" hot-swap SAS/SATA 2x 2.5" fixed drive bay	4x 3.5" hot-swap SAS/SATA 1x 2.5" fixed drive bay
Peripheral Bays	1x slim DVD-ROM drive bay (shared with 1 x 2.5" fixed drive bay)	1x slim DVD-ROM drive bay (shared with 1 x 2.5" fixed drive bay)	1x slim DVD-ROM drive bay (shared with 1 x 2.5" fixed drive bay)
Power Supply	PWS-251-1H 250W Flex ATX Multi-output Bronze Power Supply	PWS-251-1H 250W Flex ATX Multi-output Bronze Power Supply	PWS-251-1H 250W Flex ATX Multi-output Bronze Power Supply
Cooling System	1x 12cm rear exhaust fan;	1x 12cm rear exhaust fan;, SNK-P0046A4 - optional	1x 12cm rear exhaust fan;, SNK-P0046A4 - optional
Form Factor	Mini-Tower; Enclosure: 210 x 240 x 279mm (8.27" x 9.45" x 11") Package: 315 x 350 x 410mm (12.4" x 13.78" x 16.14")	Mini-Tower; Enclosure: 210 x 240 x 279mm (8.27" x 9.45" x 11") Package: 315 x 350 x 410mm (12.4" x 13.78" x 16.14")	Mini-Tower; Enclosure: 210 x 240 x 279mm (8.27" x 9.45" x 11") Package: 315 x 350 x 410mm (12.4" x 13.78" x 16.14")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**IoT/Embedded**  
Intel® Xeon® Processor D-1537 SoC, 8 Core



**IoT/Embedded**  
Intel® Pentium® Processor D1508 SoC  
Dual Core



MODEL	SYS-5018D-MHR7N4P	SYS-5018D-LN4T
Processor Support	Intel® Xeon® Processor D-1537, SoC 8 Core, 35W, 1.7-2.3GHz	Intel® Pentium® Processor D1508, FCBGA1667 supported, CPU TDP support 25W
Key Applications	<ul style="list-style-type: none"> <li>• Hyper-Converged Appliance</li> <li>• Enterprise Server</li> <li>• Edge Computing Server</li> <li>• Private Cloud Server</li> <li>• Virtualization Server</li> </ul>	<ul style="list-style-type: none"> <li>• Compact Network Appliance</li> <li>• FireWall Applications</li> <li>• Software Defined WAN</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Low Power Xeon D SoC 8 Core with Dual 10GbE and Dual GbE</li> <li>• Remote management via dedicated IPMI BMC</li> <li>• 400W high-efficiency redundant power supply</li> <li>• 7 year life cycle</li> </ul>	<ul style="list-style-type: none"> <li>• Intel® Xeon® processor D-1508, Dual-Core, 25W</li> <li>• Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets</li> <li>• 4 x 2.5" SATA3 HDD, and 1 M.2 (M key 2242/80/110 PCIe 3.0x4)</li> </ul>
Serverboard	SUPER● X10SDV-7TP4F	SUPER● X10SDV-2C-TP4F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to Up to 128GB Registered ECC RDIMM, DDR4-2133MHz Up to 64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots	Up to 128GB Registered ECC RDIMM and DDR4-2133MHz64GB Unbuffered ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots
Expansion Slots	PCI-E 3.0 x8 full height expansion slot; M.2 PCIe 3.0x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support	1 PCI-E 3.0 x8; M.2 PCIe 3.0x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support
Onboard Storage Controller	4 SATA3 support RAID 0,1,5,10(RSTe) or 4 SAS2 (No RAID support and require one optional cable, CBL-SAST-0811)	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10 RSTe;
Connectivity	2x 1GbE LAN, 2x 10G SFP+, 1 dedicate IPMI LAN, 2 USB3.0, 1 USB2.0 Type A	2x 1GbE LAN, 2x 10G SFP+, 1 dedicate IPMI LAN, 2 USB3.0
VGA/Audio	VGA via BMC	VGA via BMC
Management	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor®5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor®5, Watchdog
Drive Bays	4x 3.5" hot-swap SATA3/SAS2(require one optional cable, CBL-SAST-0811)	1x 3.5" fixed drive bay or up to 4x 2.5" fixed drive bay
Peripheral Bays	1 slim DVD-ROM drive bay	N/A
Power Supply	Redundant 400W Platinum Level power supplies, PWS-407P-1R	200W Low-Noise AC-DC power supply with PFC
Cooling System	3x 40x28mm PWM fan for CPU and Memories; 1x 40x28mm PWM fan for AOC cooling	1x 4028mm 13K RPM 4-PIN PWM FAN
Form Factor	1U Rackmount; Enclosure: 437 x 43 x 503mm (17.2" x 1.7" x 19.8") Package: 610 x 216 x 749mm (24" x 8.5" x 29.5")	1U Short Depth Rackmount; Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8") Package: 655 x 155 x 465mm (25.8" x 6.1" x 18.3")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**IoT/Embedded**  
Intel® Xeon® Processor D-1537 SoC, 4-Core



**IoT/Embedded**  
Intel® Xeon® Processor D-1587 SoC 16 Core



MODEL	SYS-5018D-FN8T	SYS-1018D-FRN8T
Processor Support	Intel® Xeon® Processor D-1518, SoC 4 Core, 35W, 2.2 GHz	Intel® Xeon® Processor D-1587 SoC 16 Core, 65W 1.7-2.3GHz
Key Applications	<ul style="list-style-type: none"> <li>• Networking Appliance</li> <li>• Network Security Appliance</li> <li>• FireWall Applications</li> <li>• Embedded Applications</li> <li>• Virtualization Server</li> </ul>	<ul style="list-style-type: none"> <li>• Network Security Appliance</li> <li>• FireWall Applications</li> <li>• Virtualization</li> <li>• SD-WAN</li> <li>• vCPE</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Low Power Xeon D SoC 4 Core</li> <li>• Best Performance per Watt</li> <li>• 7 year life cycle</li> <li>• IPMI 2.0 management with dedicated LAN</li> </ul>	<ul style="list-style-type: none"> <li>• 400W Redundant Platinum PSU</li> <li>• 1x Low Profile PCIe 3.0 x 8 and 1x M.2 PCIe 3.0 x4, MiniPCIe with mSata</li> <li>• 4x 2.5" HDD</li> <li>• 8 LAN w/ 2x10G SFP+ and 6x1GbE LAN</li> <li>• 128G DDR4 RAM</li> </ul>
Serverboard	SUPER● X10SDV-TP8F	SUPER● X10SDV-7TP8F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets	128 GB of DDR4 ECC RDIMM 2133MHz or 64 GB of DDR4 ECC UDIMM 2133MHz
Expansion Slots	1 PCI-E 3.0 x8; M.2 PCIe 3.0x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support	1 PCI-E 3.0 x8; M.2 PCIe 3.0x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support
Onboard Storage Controller	SoC controller for 4x SATA3.0	SoC controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10RSTe; Broadcom® 2116 SW controller for 16 SATA3/ SAS2 (6 Gbps) ports
Connectivity	6x 1GbE LAN, 2x 10G SFP+, 1 dedicate IPMI LAN, 2 USB3.0	6x 1GbE LAN, 2x 10G SFP+, 1 dedicate IPMI LAN, 2 USB3.0
VGA/Audio	VGA via BMC	VGA via BMC
Management	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SUM, SuperDoctor®5, Watchdog	IPMI 2.0 (RJ45) with dedicated LAN port and KVM via BMC VGA
Drive Bays	1x 3.5" fix drive bay or 4x 2.5" fixed drive bay with bracket	4 x 2.5" HDD
Peripheral Bays	N/A	N/A
Power Supply	200W Multi-output power supply Gold level w/20pin	Redundant 400W 80Plus Platinum Level
Cooling System	Passive CPU heat sink and 3x 40mm chassis fans	4x 40mmx56mm cooling fan
Form Factor	1U Short Depth Rackmount; Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8") Package: 655 x 155 x 465mm (25.8" x 6.1" x 18.3")	1U Rackmount; Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8") Package: 686 x 203 x 610mm (27" x 8" x 24")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



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**IoT/Embedded**  
Intel® Atom® C2758, 8-Core  
Rangeley

**IoT/Embedded**  
Intel® Atom® C2758, 8-Core  
Rangeley



MODEL	SYS-5018A-FTN4	SYS-5018A-MHN4
Processor Support	Intel® Atom™ C2758 Processor, SoC 8-Core, 20W, 2.4GHz	Intel® Atom™ Processor C2758, SoC 8-Core, 20W, 2.4GHz
Key Applications	<ul style="list-style-type: none"> <li>• Application and data serving</li> <li>• Automation</li> <li>• Cloud and Virtualization needs</li> <li>• Corporate- WINS, DNS, Print, Login</li> <li>• e-Business</li> <li>• Embedded Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Cloud and Virtualization needs</li> <li>• Cloud Computing</li> <li>• Data Center</li> <li>• Data Warehouse</li> <li>• Database Applications</li> <li>• e-Business</li> </ul>
Outstanding Features	<ul style="list-style-type: none"> <li>• Compact size server</li> <li>• 4x 2.5" SATA drives</li> </ul>	<ul style="list-style-type: none"> <li>• IPMI 2.0 + KVM with dedicated LAN</li> <li>• Optimized for Power Saving and Improved Cooling</li> <li>• 4 hot-swap 3.5" SATA/SAS Drive Bays</li> </ul>
Serverboard	SUPER® A1SRi-2758F	SUPER® A1SRM-2758F
Chipset	System on Chip	System on Chip
System Memory (Max.)*	Up to 64GB DDR3 1600MHz ECC SO-DIMM in 4 DIMM sockets	Up to 64GB ECC/non-ECC UDIMM, DDR3-1600MHz in 4 sockets
Expansion Slots	1 PCI-E 2.0 x8	1 PCI-E 2.0 x8(FH,HL)
Onboard Storage Controller	SoC controller for 4 SATA2 (3 Gbps); 2 SATA3 (6 Gbps);	SoC controller for 4 SATA2 (3 Gbps); 2 SATA3 (6 Gbps)
Price Connectivity	4x 1GbE LAN, 1 dedicate IPMI LAN, 2 USB3.0, 2 USB2.0, 1 serial port (DB9)	4x 1GbE LAN, 1 dedicate IPMI LAN, 4 USB2.0, 1 serial port(DB9)
VGA/Audio	VGA via BMC	VGA via BMC
Management	IPMI2.0, NMI, SuperDoctor®5, Watchdog	IPMI2.0, KVM with dedicated LAN, NMI, SuperDoctor®5, Watchdog
Drive Bays	2x 3.5" fixed drive bay or 4x 2.5" fixed drive bay with optional bracket	4x 3.5" hot-swap SAS/SATA
Peripheral Bays	N/A	1 slim DVD-ROM drive bay
Power Supply	High efficiency 200W power supply	200W Low Noise AC-DC power supply with PFC
Cooling System	1 x 40x28MM 4-PIN PWM FAN	2x 4cm high performance PWM fan
Form Factor	1U Short Depth Rackmount; Enclosure: 437 x 43 x 249mm (17.2" x 1.7" x 9.8")	







# ULTRA NETWORKING RISER CARDS



Model	AOC-2UR66-i4XTF	AOC-2UR68-i4G	AOC-2UR6-i4XT	AOC-2UR66-i4G	AOC-2UR68-i2XT
Form Factor	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser
Controller Type	10GBase-T	GbE	10GBase-T	GbE	10GBase-T
Chipset	Intel® XL710	Intel® i350	Intel® X540	Intel® i350	Intel® X540
Port #	4	4	4	4	2
Connector	RJ45	RJ45	RJ45	RJ45	RJ45
PCI-E Slot	2x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x16	2x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16
NVMe Ports	0	0	0	0	0
Compatible Motherboards	X11DPU, X10DRU-i+	X11DPU, X10DRU-i+ X10DRU-X	X10DRU-i+ X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X
Compatible Systems	SYS-2029U-E1CR4T SYS-2029U-TR4T SYS-6029U-E1CR4T SYS-6029U-TR4T	SYS-2029U-TR4, SYS-2029U-E1CR4, SYS-6029U-TR4, SYS-6029U-E1CR4, SYS-2029UZ-TR4+, SYS-6028U-TR4+ SYS-2028U-TR4+ SYS-6028U-TR4+	SYS-2028U-TR4T+ SYS-6028U-TR4T+	SYS-2048U-RTR4	SYS-2029U-TRT, SYS-2029U-E1CRT, SYS-6029U-TRT, SYS-6029U-E1CRT, SYS-6028U-TRT+ SYS-2028U-TRT+ SYS-2048U-RTR4

\* Available as integrated solutions with Supermicro servers.


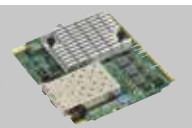







Model	AOC-2URN4-i4XT	AOC-2UR8N4-i2XT	AOC-2UR68-i2XS	AOC-2UR6N4-i4XT	AOC-2UR68-m2TS
Form Factor	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser	2U Ultra Riser
Controller Type	10GBase-T	10GBase-T	10G SFP+	10GBase-T	25GbE
Chipset	Intel® X540	Intel® X540	Intel® 82599ES	Intel® X550	Mellanox® ConnectX-4 LxEN
Port #	4	2	2	4	2
Connector	RJ45	RJ45	SFP+	RJ45	SFP28
PCI-E Slot	1x PCI-E 3.0 x8 (internal)	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16)	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16	1x PCI-E 3.0 x16	1x PCI-E 3.0 x8 (internal) 1x PCI-E 3.0 x8 (in x16) 1x PCI-E 3.0 x16
NVMe Ports	4	4	0	4	0
Compatible Motherboards	X10DRU-i+, X10DRU-X	X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+, X10DRU-X	X11DPU, X10DRU-i+	X11DPU, X10DRU-i+
Compatible Systems	SYS-2028U-TNR4T+ SYS-6028U-TNR4T+ SYS-2028U-E1CNR4T+ SYS-6028U-E1CNR4T+	SYS-2028U-TNRT+ SYS-6028U-TNRT+ SYS-2028U-E1CNRT+ SYS-6028U-E1CNRT+	SYS-2029U-TRTP, SYS-2029U-E1CRTP, SYS-6029U-TRTP, SYS-6029U-E1CRTP, SYS-6028U-TRTP+ SYS-2028U-TRTP+ SYS-2048U-RTR4	SYS-2028U-T24RT+	SYS-2029UZ-TN20R25M SYS-2029U-TR25M SYS-2029U-E1C25M SYS-6029U-TR25M







\* Available as integrated solutions with Supermicro servers.



# SIOM NETWORK ADAPTERS

	<i>NEW!</i>	<i>NEW!</i>	<i>NEW!</i>				<i>NEW!</i>
SIOM Networking Adapters							

## Storage Mezzanine Cards

	<i>NEW!</i>	<i>NEW!</i>	<i>NEW!</i>	<i>NEW!</i>	<i>NEW!</i>	
						
Model	AOM-S3008M-L8	AOM-S3108M-H8L	AOM-S3108-H8	AOM-B3108-H8	AOM-S3108M-H8	AOM-S3008-L8-SB
Compatible MBs	X10DSC+	X10DSC+	X9DRW-CF31 X9DRW-CTF31 X9DRW-CTF31	B10DRC	X10DRW-I X10DRW-IN X10DRW-IT X10DDW-I X10DDW-IN	X10DRS
Features	8 internal ports, 12Gb/s per port, 240 SATA/SAS drives, IT mode	8 internal ports, 12Gb/s per port, 240 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60, 2 GB cache with protection BTR-CV3108-U1	8 internal ports, 12Gb/s per port, 16 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60, 2 GB cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 8 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60, 2 GB onboard cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 16 SATA/SAS drives, RAID 0, 1, 5, 10, 6, 60, 2 GB onboard cache with protection BTR-TFM8G-BroadcomCVM02	8 internal ports, 12Gb/s per port, 112 SATA/SAS drives, IR mode, RAID 0, 1, 1e, 10

# HBA AND SAS RAID CARDS

Coming Soon!

NVMe

NVMe

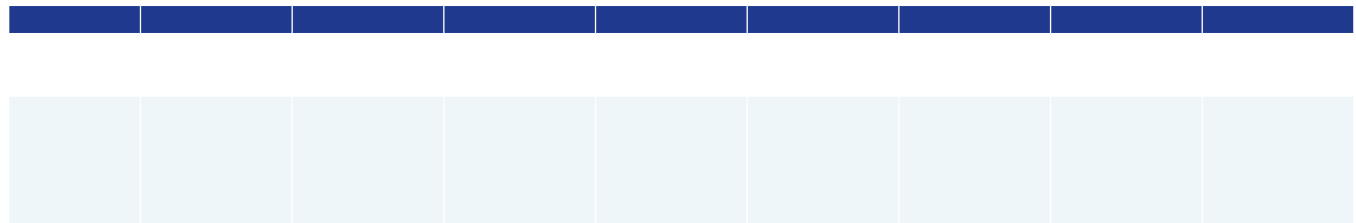
NVMe

NVMe

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NVMe



\* HW restrictions may apply

New!  
SAS3

SAS3

SAS3

SAS3

SAS3

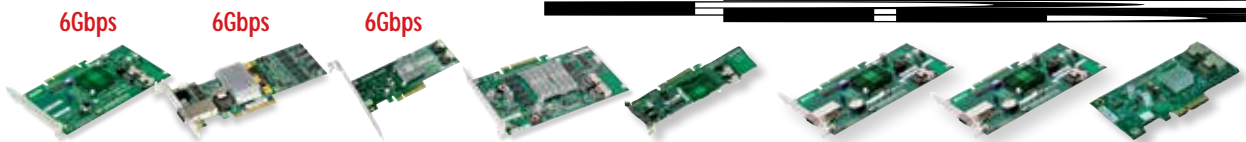
6Gbps



Model	AOC-S3216L-L16iT	AOC-S3108L-H8iR-16DD	AOC-S3108L-H8iR <sup>†</sup>	AOC-S3008L-L8e <sup>†</sup>	AOC-S3008L-L8i <sup>†</sup>	AOC-S2208L-H8iR <sup>†</sup>
Type	Standard	Low profile PCI-E 3.0 x8	Standard	Standard	Standard	Standard
Controller/IOP	Broadcom SAS 3216	Broadcom SAS 3108	Broadcom SAS 3108	Broadcom SAS 3008	Broadcom SAS 3008	Broadcom SAS 2208
SAS Port	16 ports, 12Gbps per port, 16 Internal, Low Profile, 1024 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 16 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 240 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 122 SATA/SAS Drives	8 ports, 12Gbps per port, 8 Internal, Low Profile, 63 SATA/SAS Drives	8 ports, 6Gbps per port, 8 Internal, Low Profile, 240 SATA/SAS Drives,
RAID	IT/HBA	RAID 0,1,5,6,10,50,60	RAID 0,1,5,6,10,50,60	IT/HBA Mode	RAID 0,1,10	RAID 0,1,5,6,10,50,60
Onboard Cache	-	2GB DDR3 on-card cache Optional SuperCap: BTR-TFM8G-BroadcomCVM02. Installation kit PN=MCP-240-00127-0N	2GB DDR3 on-card cache Optional SuperCap: BTR-TFM8G-BroadcomCVM02. Installation kit PN=MCP-240-00127-0N	-	-	1GB DDR3 on-card cache w/ Battery Back-up or SuperCap, Optional Battery Backup Unit: BTR-0022L-Broadcom00279 / MCP-450-00001-0N / Ambient Temp 45C, SuperCap option: BTR-0024LH-Broadcom00297. Installation kit PN=MCP-240-00127-0N



2 MBSD R2 on -ca r d



Model	AOC-USAS2-L8E	AOC-SAS2LP-H4iR <sup>†</sup>	AOC-SAS2LP-MV8	AOC-USAS-L8i <sup>**</sup>	AOC-USASLP-L8i <sup>**</sup>	AOC-USAS-L4i <sup>**</sup>	AOC-USAS-L4iR <sup>**</sup>	AOC-SASLP-MV8 <sup>**</sup>
Type	UIO	Standard	Standard	UIO	UIO	UIO	UIO	Standard
Controller/IOP	Broadcom SAS 2008	Broadcom SAS 2108	Marvel 9480 based	Broadcom SAS 1068E	Broadcom SAS 1068E	Broadcom SAS 1068E	Broadcom SAS 1068E	Standard Marvell Hercules-2
SAS Port	8 ports, 6Gbps per port 8 Internal	8 ports, 6Gbps per port, 4 Internal, 4 external, Low Profile, 240 SATA/SAS Drives	8 ports, 6Gbps per port 8 Internal, Low Profile	8 ports, 3Gbps per port 8 Internal	8 ports, 3Gbps per port 8 Internal, Low Profile	8 ports, 3Gbps per port 4 Internal, 4 External	8 ports, 3Gbps per port 4 Internal, 4 External	8 ports, 3Gbps per port 8 Internal, Low Profile
RAID	IT mode / HBA	RAID 0,1,5,6,10,50,60 HBA	HBA	IT/HBA Mode	IT/HBA Mode	RAID 0,1,10	RAID 0,1,5,10	HBA only
Onboard Cache	-	512MB DDR2 on-card cache w/ battery w/ Optional Battery Backup Unit: BTR-0023L-Broadcom00264	-	-	-	-	-	-


# RISER CARDS





# RISER CARDS

## 1U GPU/Coprocessor (Right Hand Side)

	RSC-R1UG-E16R-X9	1U GPU RHS	Universal Slot (GPU)	1 PCI-E x16	Passive	Yes	X9DRG-HF, X8DTG-QF+	118G-1400B, 118G-1800B, 118G-1K43B	1026GT-TRF, 1026GT-TRF-FM307, 1026GT-TRF-FM309, 1026GT-TRF-FM375, 1027GR-TQF, 1027GR-TQF-FM409, 1027GR-TQF-FM475, 1027GR-TQF, 1027GR-TRF, 1027GR-TRF-FM309, 1027GR-TRF-FM375, 1027GR-TRFT, 1027GR-TRFT+, 1027GR-TSF, 1026GT-TSF	Yes	Yes	Yes	No
	RSC-MLP-E8R	1U MLP RHS	PCI-E x8	1 PCI-E x8	Passive	Yes	X9SCE, X9SCE-F	SC 939H-R1K63B	AOM-CGP-I2M, AOM-CIBF-M1M, AOM-CTG-I15M	No	Yes	Yes	No

## 1U Standard (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R1U-33	1U Standard LHS	PCI-32 (33 MHz)	1 PCI	Passive	Yes	X9SBAA-F, X9SBAA	504-203B	5017A-EF	No	No	No	No
	RSC-R1U-UL	1U Standard LHS	PCI-E x8	1 UIO	Passive	No	X75BL-LN1/2, POSBM-LN1/2+, POSML-LN1/LN2/LN2+/E+, X75LA-H/LX-85L/E/6-series, X8516-F, X75LM-L, X851E/3-series, X75PE-series***, X95RD-F, X95CA(F), X851A(F), X95CD-F, X95RL(F), X95RE-series, X95RI-series, X95RH-series, X95CI-series, X80TN+, X70WN+, H80G-series, N/A, X95PV-M4	SC815, SC813, SC113	N/A	No	Yes, depending on slots	No	N/A

## 1U Standard (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-RR1U-E8	1U Standard LHS	PCI-E x8	1 PCI-E x8	Passive	Yes	H80M0-2, H80ME-2, H85CM-E, H85ML-L, X80T1, X80T3, X80T1-F, X80T3-F, X80T1-LN4E, X80T3-LN4E, X90RD-IF, X90RD-7LN4E, X90RD-7LN4F-B000, X90RD-F, X80L, X85L, X85L-V, X85E, X85E-F, X85E-LN4, X85E-LN4E, X8516-F, X851E, X851, X851-F, X851-3E, X85T3-F, X85T1-LN4, X75PE-H, X75PE-HF, X75PE-H-0525, X75PA-L, X75PA-H, X75PA-HF, X95CA, X95CA-F, X95CM-HF, X95CL, X95CL-E, X95CL-F, X95CA-F, X95CA-F, X95CL-LN4, X95CL-LN4E, X95CD-C, X95RE-F, X95RE-3E, X95B-F, X95B-3E, X95BL-F, X95BL-7E, X95BL-7E, X95PV-M4, X95PV-F, X95PV-F-3217UE, X95PV-F-3610ME, X95PV-LN4E, X95PV-LN4E-3LE, X95PV-LN4F-3QE, X95PV-M4, X95PV-M4-3QE, X95PV-M4-3UE, X70C-L, X70C-L3, X70WE, X90RD-3E, X75LA, X75LM-L, X75LM-L, POSBM-LN1, POSBM-LN2, POSBM-LN2+, X75BL-LN1, X75BL-LN2, X75B3, X75B3-F, X75LA-H, X75LA-L, X75PE-HF-0525, X75PA-HF-0525, X95L	1111T-330CB, 1111T-360CB, 1111TQ-563CB, 1111TQ-600CB, 811L-350B, 812L-520B, 813I-500B, 813LT-350CB, 813LT-R500CB, 813MFTQ-441CB, 813MFTQ-520CB, 813MFTQ-R400CB, 813MT-300CB, 813MT-410CB, 813MTQ-280CB, 815T-330CB, 815T-563CB, 815TQ-563CB, 815TQ-600CB, 502-200B, 512-200B, 512-203B, 512F-260B, 512F-350B, 512F-441B, 113MTQ-330CB, 113MTQ-563CB, 113MTQ-600CB, 113MTQ-R400CB, 113TQ-563CB, 113TQ-600CB, 503L-200B, SC112, SC812	1012C-MRF, 1021M-T2+V, 1017C-TF, 1027R-73DARF, 1027R-73DBRF, 5017C-LF, 5017C-MF, 5017C-MTF, 5017C-MTRF, 5017C-TF, 5037MC-H8TRF, 5037MR-H8TRF, 6016T-6F, 6017R-TDF+, 1012A-M73RF, 1012A-MRE, 1012A-MTF, 1015B-3B, 1015B-M3B, 1016F-TF, 1025C-3B, 1025C-M3B, 1027R-73DAF, 5015B-M3B, 5016I-MR, 5016I-MRF, 5016I-MRH, 5016I-MRHF, 5016I-T, 5016I-TF, 5038ML-H8TRF, 6015C-M3, 6015C-M3B, 6015C-MT, 6015C-MT(B), 6017R-M7RF, 6017R-M7UF, 6017R-MTLF	No	Yes, depending on MB	Yes, depending on MB	Yes

## 1U Standard (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-RR1U-E16	1U Standard LHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X80T4-G, X80T4-GE, X80T4-L, X80T4-HE, X80T4-3, X80T4-3E, X80T4-6, X80T4-6E, X80T4-6L, X80T4-L, X80T4-LE, X80T4-L, X85AK, X85E, X85E-F, X85E-LN4, X85E-LN4E, X8516-F, X851E, X851, X851-F, X851-3E, X85T3-F, X85T1-LN4, X75PE-H, X75PE-H-0525, X75PE-HF, X85A, X85A-F, X95CA, X95CA-F, X95RL-F, X95RE-3E, X95B-F, X95B-3E, X95BL-F, X95BL-7E, X95BL-7E, X95PV-M4, X95PV-F, X95PV-F-3217UE, X95PV-F-3610ME, X95PV-LN4E, X95PV-LN4E-3LE, X95PV-LN4F-3QE, X95PV-M4, X95PV-M4-3QE, X70C-L, X70C-L3, X70WE, X90RD-3E, X75LA, X75LM-L, X75LM-L, POSBM-LN1, POSBM-LN2, POSBM-LN2+, X75BL-LN1, X75BL-LN2, X75B3, X75B3-F, X75LA-H, X75LA-L, X75PE-HF-0525, X75PA-HF-0525, X95L	1111T-330CB, 1111T-360CB, 1111TQ-563CB, 1111TQ-600CB, 113MTQ-330CB, 113MTQ-563CB, 113MTQ-600CB, 113MTQ-R400CB, 113TQ-563CB, 113TQ-600CB, 811L-350B, 812L-520B, 813I-500B, 813LT-350CB, 813LT-R500CB, 813MFTQ-441CB, 813MFTQ-520CB, 813MFTQ-R400CB, 813MT-300CB, 813MT-410CB, 813MTQ-280CB, 815T-330CB, 815T-563CB, 815TQ-563CB, 815TQ-600CB, 502-200B, 512-200B, 512-203B, 512F-260B, 512F-350B, 512F-441B, 113MTQ-330CB, 113MTQ-563CB, 113MTQ-600CB, 503L-200B, SC112	1012G-MTF, 1041A-T2F, 1041M-T2+B, 1042G-LTF, 1042G-TF, 1017R-MTF, 1026T-M3, 1027B-MTF, 5017R-MF, 5017R-MTF, 5017R-MTRF, 6016T-MR, 6016T-MT, 6016T-MTHF, 6016T-MTLF, 6016T-T, 6017B-MTF, 6017B-MTLF, 6017B-MTRF, 6017R-TDAF, 6017R-TDF, 8016B-6F, 8016B-TF, 8016B-TLF, 8017R-7FT+, 8017R-TF+, 1011M-T2(B), 1041M-82(B), 1041M-T2(B), 1016I-M6F, 1016T-M3FB, 1018D-73MTF, 1026T-T, 1026T-TF, 5015A-EHF, 5016I-M6F, 5016I-MT, 5016I-MTF, 5016I-MTH, 5016I-MTHF, 5016I-MRB, 5016T-MRB-LN4, 5016T-MTFB, 5016T-TB, 5017P-TF, 5017P-TLN4F, 5018D-MF, 5018D-MTLN4F, 5018D-MTRF, 6016T-TF, 6017R-TDLRF, 8014T-T, 8014T-TB, 8015C-TB	No	Yes, depending on MB	Yes, depending on MB	Yes




# RISER CARDS


## 1U UIO (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection	
	RSC-R1UU-E16	1U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x16	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X8SIU-FH8DMU+, H8SMU, H8DGU, H8DGF, H8DGF-LN4F+, X7DBU, X7DGF, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF, X7SBU, PDSMU, X8SIU	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, SC515-280UB	N/A	Yes	Yes, depending on MB	No	No	
	RSC-R1UU-2E8	1U UIO LHS	Universal SXB2 Slot (UIO)	2 PCI-E x8	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X8SIU-F, H8DMU+, H8SMU, H8DGU, H8DGF, X7DGF, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF, X7SBU, PDSMU, X8SIU, X7DBU, X7DGF, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF, X7SBU, PDSMU, X8SIU	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	1022G-NTF, 1026T-6RF+, 1026T-6RFT+, 6016T-6RFT+, 6016T-NTF, 6016T-NTRF, 6016T-NTRF4+, 1011M-Ni(B), 1011M-URV/B, 5015B-NTRB, 5015B-NTRB, 5015M-Ni(B), 5015M-NTRV/B, 5015M-NTV/B, 5016I-NTF, 6015B-Ni(B), 6015B-NTRV/B, 6015B-NTV/B, 6015C-Ni(B), 6015C-NTRV/B, 6015C-NTV/B, 6015W-Ni(B), 015W-NTRV/B, 6016T-6RF+, 6016T-NT	No	Yes, depending on MB	No	No	No
	RSC-R1UU-2U	1U UIO LHS	Universal SXB2 Slot (UIO)	2 UIO	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X8SIU-F, H8DMU+, H8SMU, H8DGU, H8DGF, H8DGF-LN4F+, X7DBU, X7DGF, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF, X7SBU, PDSMU, X8SIU	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	N/A	No	Yes, depending on MB	No	No	
	RSC-R1UU-UE8	1U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x8; 1 UIO	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X8SIU-F, H8DMU+, H8SMU, H8DGU, H8DGF, H8DGF-LN4F+, X7DBU, X7DGF, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF, X7SBU, PDSMU, X8SIU	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	1022G-NTF, 1026T-6RF+, 1026T-6RFT+, 6016T-6RFT+, 6016T-NTF, 6016T-NTRF, 6016T-NTRF4+, 1011M-Ni(B), 1011M-URV/B, 5015B-NTRB, 5015B-NTRB, 5015M-Ni(B), 5015M-NTRV/B, 5015M-NTV/B, 5016I-NTF, 6015B-Ni(B), 6015B-NTRV/B, 6015C-Ni(B), 6015C-NTRV/B, 6015C-NTV/B, 6015W-Ni(B), 015W-NTRV/B, 6016T-6RF+, 6016T-NT	No	Yes, depending on MB	No	No	
	RSC-R1UU-E8E16	1U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x8; PCI-E x16	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X9SPU-F, X9DBU-IF, X9DBU-3F, H8DGF, H8DGF-LN4F+, X8SIU-F, X8SIU	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	6017B-NTF	Yes	Yes, depending on MB	Yes, depending on MB	Yes depending on MB	
	RSC-R1UU-UE16	1U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x16; 1 UIO	Passive	Yes	X8DTU, X8DTU-F, X8DTU-LN4F+, X9SPU-F, X9DBU-IF, X9DBU-3F, H8DGF, H8DGF-LN4F+,	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	1022G-URF, 1026T-URF, 1026T-URF, 1026T-URF4+, 1026T-URF4+LR, 5017C-URF, 6016T-URF, 6016T-URF4+, 6016T-U, 6016T-U, 6017B-URF	Yes	Yes, depending on MB	Yes, depending on MB	Yes	

## 1U UIO (Right Hand Side)




Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R1UU-E8PR	1U UIO RHS	PCI-E x8	1 PCI-E x8	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, X7DWU, X7DCU, X8DTU-6F, X8DTU-6TF	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, SC515-280UB	N/A	No	Yes, depending on slots	No	No
	RSC-R1UU-E8R+	1U UIO RHS	PCI-E x8	1 PCI-E x8	Passive	No	X8SIU-F, X9SPU-F, H8SMU, X8DTU-LN4F+, X8DTU-6F+, X8SIU-F	113TQ-560UB, 113TQ-563UB, 113TQ-600UB, 113TQ-R500UB, 113TQ-R650UB, 815TQ-560UB, 815TQ-563UB, 815TQ-600UB, 815TQ-710UB, 812L-280U, 812L-280UB, 812L-520U, 812L-600UB, 111T-560UB, 111TQ-563UB, 111TQ-600UB, 111LT-330UB, 111LT-360UB, 119TQ-R700UB, 819TQ-R700UB, 515-280UB	N/A	No	No	No	No

## 1U WIO (Left Hand Side)


Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-W-68	1U WIO LHS	WIO Slot	1 PCI-E x8 1 PCI-E x16	Passive	Yes	X11SSW-F	WIO Chassis	5019S-WR	No	Yes	Yes	No
	RSC-W-88	1U WIO LHS	WIO Slot	2 PCI-E x8	Passive	No	X10DRW-I	WIO Chassis	6028R-WTR, 1028R-WTR, 1028R-WC1R	No	Yes	Yes	Yes

# RISER CARDS








## 1U WIO (Left Hand Side)

	RSC-R1UW-2E16	1U WIO LHS	WIO Slot	2 PCI-E x16	Passive	Yes	X9SRW-3F, X9SRW-F, X9DRW-IF, X9DRW-3F, X9DRW-3LN4F+, X9DRW-3TF+, X10DRW-series / X10DR-T/X10DDW-I	WIO Chassis	1027R-72BRFTP, 1027R-72RFTP, 1027R-N3RF, 1027R-WRF, 1027R-WRF4+, 1027R-WRF1+, 5017R-WRF, 6017R-72BRFTP, 6017R-N3RF4+, 6017R-N3RFTP+, 6017R-NTF, 6017R-WRF	Yes	Yes	Yes	Yes
	RSC-R1UW-U	1U WIO LHS	WIO Slot	1 UIO	Passive	Yes	X9SRW-3F, X9SRW-F, X9DRW-IF, X9DRW-3F, X9DRW-3LN4F+, X9DRW-3TF+, X10DRW-series, X10SRW-F	WIO Chassis	N/A	No	Yes	Yes	No
	RSC-R1UW-E16	1U WIO LHS	WIO Slot	1 UIO	Passive	Yes	X9DRD-CNT+, X10DRW-series, X10SRW-F	1U WIO Chassis	N/A	Yes	Yes	Yes	Yes





## 1U WIO (Right Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup-port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup-port	Gen3 Sup-port	Auto Detection
	RSC-R1UW-E8R	1U WIO RHS	WIO Slot	1 PCI-E x8	Passive	Yes	X9SRW-3F, X9SRW-F, X9DRW-IF, X9DRW-3TF+, X9DRW-3LN4F+, X9DRW-7TF+, X10SRW-F, X10DDW-I	WIO Chassis	5017R-WRF, 1027R-72BRFTP, 1027R-72RFTP, 1027R-WRF4+, 1027R-WRF1+, 6017R-72BRFTP, 6017R-N3RF4+, 6017R-N3RFTP+	No	Yes	Yes	No



## 2U GPU/Coprocessor (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup-port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup-port	Gen3 Sup-port	Auto Detection
	RSC-G2F-A66	2U GPU LHS	1 PCI-E x16	2 PCI-E x16	Active	No	X10DRG-H, X10DRG-HT	SC218GH-R2K03B	2028GR-TR, 2028GR-TRH, 2028GR-TRHT, 2028GR-TRT	Yes	Yes	Yes	Yes
	RSC-R2UG-E8G-X9	2U GPU LHS	Universal Slot (GPU)	1 PCI-E x8	Passive	Yes	X9DRG-HF, X9DRG-HTF	218G-R1800B	2027GR-TRF, 2027GR-TRF-FM409, 2027GR-TRF-FM475, 2027GR-TRFT, 2027GR-TSF	No	Yes	Yes	Yes
	RSC-R2UG-A2E16-A	2U GPU LHS	Universal Slot (GPU)	2 PCI-E x16	Active	Yes	X9DRG-HF, X9DRG-HTF	218G-R1800B	2027GR-TRFH, 2027GR-TRFHT, 2027GR-TRFH-FM609, 2027GR-TRFH-FM675	Yes	Yes	Yes	Yes
	RSC-R2UG-A2E16-B	2U GPU LHS	Universal Slot (GPU)	2 PCI-E x16	Active	Yes	X9DRG-HF, X9DRG-HTF	218G-R1800B	2027GR-TRFH, 2027GR-TRFHT, 2027GR-TRFH-FM609, 2027GR-TRFH-FM675	Yes	Yes	Yes	Yes
	RSC-R2UG-2E4E8	2U GPU LHS	PCI-E x16	1 PCI-E x8; 2 PCI-E x4	Passive	Yes	X8DTG-QF+	218G-R1800B	2026GT-TF, 2026GT-TRF, 2026GT-TRF-FM407, 2026GT-TRF-FM409	N/A	Yes	No	Yes
	RSC-R2UG-2E16	2U GPU LHS	Universal Slot (GPU)	2 PCI-E x16	Passive	No	X8DTG-QF+	218G-R1800B	2026GT-TF, 2026GT-TRF, 2026GT-TRF-FM407, 2026GT-TRF-FM409	Yes	Yes	No	Yes
	RSC-R2UG-2E16-X9	2U GPU LHS	Universal Slot (GPU)	2 PCI-E x16	Passive	Yes	X9DRG-HF, X9DRG-HTF, X10DRG-H (T)	218G-R1800B	2027GR-TRF, 2027GR-TRF-FM409, 2027GR-TRF-FM475, 2027GR-TRFT, 2027GR-TSF	Yes	Yes	Yes	Yes

## 2U GPU/Coprocessor (Right Hand Side)



Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup-port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup-port	Gen3 Sup-port	Auto Detection
	RSC-G2FR-A66	2U GPU RHS	1 PCI-E x16	2 PCI-E x16	Active	Yes	X10DRG-H, X10DRG-HT	SC218GH-R2K03B	2028GR-TR, 2028GR-TRH, 2028GR-TRHT, 2028GR-TRT	Yes	Yes	Yes	Yes
	RSC-R2UG-UR-X9	2U GPU RHS	PCI-E x8	1 UIO	Passive	Yes	X8DTG-QF+, X9DRG-QF+	218G-R1800B	N/A	N/A	Yes	Yes	N/A
	RSC-R2UG-E16R-X9	2U GPU RHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X8DTG-QF+	218G-R1800B	2026GT-TF, 2026GT-TRF, 2026GT-TRF-FM407, 2026GT-TRF-FM409, 2026GT-TRF-FM475, 2027GR-TRFH, 2027GR-TRFT, 2027GR-TSF	Yes	Yes	Yes	N/A
	RSC-R2UG-2E16R-X9	2U GPU RHS	Universal Slot (GPU)	2 PCI-E x16	Passive	Yes	X8DTG-QF+X9DRG-HFX9DRG-HF+	218G-R1800B	2027GR-TRF, 2027GR-TRF-FM409, 2027GR-TRF-FM475, 2027GR-TRFH, 2027GR-TRFHT, 2026GT-TF, 2026GT-TRF, 2026GT-TRF-FM407, 2026GT-TRF-FM409, 2026GT-TRF-FM475, 2027GR-TRFH-FM609, 2027GR-TRFH-FM675, 2027GR-TRFT, 2027GR-TSF	Yes	Yes	Yes	Yes

## 2U Standard (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup-port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup-port	Gen3 Sup-port	Auto Detection
	RSC-S2-88	2U Standard LHS	1 PCI-E x8	2 PCI-E x8	Passive	No	X10QRH+	CSE-218U-R1K02P	2048U-RTR4	No	Yes	Yes	Yes
	RSC-R2U-E8	2U Standard LHS	PCI-E x8	1 PCI-E x8	Passive	Yes	H8SCM-F, H8SCM, X8SIE, X8SIE-F, X8SIE-LN4, X8SIE-LN4F, X8DT3, X8DT3-F, X8DT3-LN4F, X8DT1, X8DT1-F, X8DT-LN4F, X8DTN+, X8DTN+-F, X8ST3-F, X8STE, X8ST1, X8SIL, X8SIL-F, X8SIE, X8SIE-F, X8SIE-LN4, X8SIE-LN4F, X8SIE-F, X9SCL-LN4, X9SCL-LN4F, X9SCA, X9SCA-F	825MTQ-R700LPB, 825TQ-600LPB, 825TQ-R720LPB, 826A-R1200LPB, 826BA-R1K28LPB, 826BA-R920LPB, 826BE16-R1K28LPB, 826BE16-R920LPB, 216A-R900LPB, 216E16-R1200LPB	N/A	No	No	No	No

# RISER CARDS



## 2U Standard (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-R2U-2E8	2U Standard LHS	PCI-E x16	2 PCI-E x8	Passive	No	X8SIE, X8SIE-F, X8SIE-LN4, X8SIE-LN4F, X8D1L-1, X8D1L-F, X8DTL-3, X8D1L-3F, X8D1L-6, X8D1L-6F, X8D1L-6L, X8D1L-L,	N/A	No	No	No	No	
	RSC-R2U-A3E8+	2U Standard LHS	PCI-E x8 Slot with SEPC	3 PCI-E x8	Active	No	X8DTN+, X8DTN+-F, X8DTN+-F-LR, X8DTN+-L, X8DTI-F, X8DTI-F, X8DTI-LN4F, X8DTI-3, X8DTI-3-F, X8DTI-LN4F, X7DWN	N/A	No	Yes	Yes	Yes	


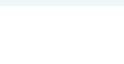


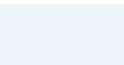


## 2U Ultra (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-U2N4-6	2U Ultra LHS	1 WIO Slot	2 PCI-E x8	Passive	No	X10DRU-i+	CSE-219UAC-R1K02	2028U-TN24RT+	Yes	Yes	Yes	Yes





## 2U Twin (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-R2UFF-E16A	2U Twin LHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X9DRFF-iG+	SCF424AG, SCF424BG	F627G2-F73+, F627G2-F73PT+, F627G2-FT+, F627G2-FTPT+, F627G3-FT+, F627G3-FTPT+, F627G3-F73+, F627G3-F73PT+, F627G3-FT+, F627G3-FTPT+, F627G3-F73+, F627G3-F73PT+, F627G3-FT+, F627G3-FTPT+	Yes	Yes	Yes	Yes
	RSC-R2UFF-2E16B	2U Twin LHS	PCI-E x16	2 PCI-E x16	Passive	Yes	X9DRFF-iG+	SCF424AG, SCF424BG	F627G2-F73+, F627G2-F73PT+, F627G2-FT+, F627G2-FTPT+, F627G3-FT+, F627G3-FTPT+, F627G3-F73+, F627G3-F73PT+, F627G3-FT+, F627G3-FTPT+	Yes	Yes	Yes	Yes

## 2U Twin (Right Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-R2UT-3E8R	2U Twin RHS	PCI-E x8 PCI-E x16	3 PCI-E x8	Passive	Yes	X9DRT-F, X9DRT-HF, X9DRT-HBF, X9DRT-HBQF, X9DRT-HBF, X9DRT-HBQF	SC827T-R1400B, SC827T-R1200	2027TR-D70FRF, 2027TR-D70QRF, 2027TR-D70RF, 6027TR-D70FRF, 6027TR-D70QRF, 6027TR-D70RF, 6027TR-D71FRF, 6027TR-D71QRF, 6027TR-D71FRF, 6027TR-D71QRF	No	Yes	Yes	Yes
	RSC-R2UF-E16R	2U Twin RHS	PCI-E x16	1 PCI-E x16	Passive	Yes	X9DRFR-F	SCF424AS-R1K28BP	N/A	Yes	Yes	Yes	Yes
	RSC-R2UT-E8E16R	2U Twin RHS	PCI-E x8 PCI-E x16	1 PCI-E x8; 1 PCI-E x16	Passive	Yes	X9DRT-F, X9DRT-HF, X9DRT-HBF, X9DRT-HBQF, X9DRT-HBF, X9DRT-HBQF	SC827T-R1400B, SC827T-R1200	6027TR-GTRF	Yes	Yes	Yes	Yes
	RSC-R2UT-2E8R	2U Twin RHS	PCI-E x16	2 PCI-E x8	Passive	No	X8DTT, X8DTT-F, X8DTT-IBX, X8DTT-IBXF, X8DTT-IBQ, X8DTT-IBQF, X8DTT-H, X8DTT-HF, X8DTT-H+, X8DTT-HF+, X8DTT-HB, X8DTT-HB+, X8DTT-HBQ, X8DTT-HBQ+, X8DTT-HBQF, X8DTT-HBQF+, X8DTT-HLN4F	827H-R1400B, 827T-R1200	2026TT-DL1BQRF, 2026TT-DL1BQRF, 2026TT-DLRF, 2026TT-D61BQRF, 2026TT-D61BQRF, 2026TT-D61BQRF, 2122TC-DL6RF4	No	Yes	No	Yes
	RSC-R2UF-2E8GR	2U Twin RHS	PCI-E x16	2 PCI-E x8	Passive	Yes	X9DRFR-F	SC-F424AS-R1K28BP	N/A	No	Yes	Yes	Yes
	RSC-R2UT-E16R	2U Twin RHS	PCI-E x16	1 PCI-E x16	Passive	No	X8DTT, X8DTT-F, X8DTT-IBX, X8DTT-IBXF, X8DTT-IBQ, X8DTT-IBQF, X8DTT-H, X8DTT-HF, X8DTT-H+, X8DTT-HF+, X8DTT-HB, X8DTT-HB+, X8DTT-HBQ, X8DTT-HBQ+, X8DTT-HBQF, X8DTT-HBQF+, X8DTT-HLN4F, X8DTT-HLN4F+	827H-R1400B, 827T-R1200	6026TT-G1BQRF, 6026TT-G1BQRF, 6026TT-GTRF	Yes	Yes	No	No
	RSC-R2UT-2E4E8R-SS026	2U Twin RHS	PCI-E x16	2 PCI-E x4; 1 PCI-E x8	Passive	No	X8DTS-F	SC937ETS	2026T-DE2R24L, 60365T-6HR, 60365T-6LR	No	Yes	No	Yes

## 2U UIO (Left Hand Side)

Product Image	Model Name	Category/ Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Sup- port	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Sup- port	Gen3 Sup- port	Auto Detection
	RSC-R2UU-E8E16	2U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x8; 1 PCI-E x16	Passive	Yes	X8DTU, X8DTU-F, X8DTU-LN4F+, H8DGU, H8DGU-LN4F+, X9DBU-3F, X9DBU-IF	UIO Chassis	N/A	No	Yes	Yes	Yes
	RSC-R2UU-U2E4E8G	2U UIO LHS	Universal SXB2 Slot (UIO)	1 PCI-E x8; 2 PCI-E x4; 1 UIO	Passive	Yes	X8DTU, X8DTU-F, X8DTU-LN4F+, X9DBU-3F, X9DBU-IF, X9SPU-F	UIO Chassis	2026T-URF4+, 6026T-URF4+, 6027B-URF	No	Yes	Yes	Yes
	RSC-R2UU-A4E8+	2U UIO LHS	SXB-E Universal Slot (UIO)	4 PCI-E x8	Active	No	X8DTU, X8DTU-F, X8DTU-LN4F+, H8DGU, H8DGU-F, H8DGU-LN4F+	UIO Chassis	N/A	No	Yes	No	No
	RSC-R2UU-2U	2U UIO LHS	SXB-E Universal Slot (UIO)	2 UIO	Passive	No	H8DMU+, H8SMU, H8DGU, H8DGU-F, H8DGU-LN4F+, X8DTU, X8DTU-F, X8S1U-F, X7DCL, X7DDBU, X7DWM, X7DWM+, X8DTU-6F, X8DTU-6TF, X8S1U, X7SBU, PDSMU	UIO Chassis	N/A	No	Yes, depending on slots	No	No

# RISER CARDS

## 2U UIO (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R2UU-UA3E8+	2U UIO LHS	SXB-E Universal Slot (UIO)	3 PCI-E x8; 1 UIO	Active	No	X8DTU, X8DTU-F, X8DTU-LN4F+, H8DGPU, H8DGPU-F, H8DGPU-LN4F+	UIO Chassis	2022G-URF, 2022G-URF4+, 6026T-UR, 6026T-URF	No	Yes	No	No
	RSC-R2UU-3E8G	2U UIO LHS	UIO (PCI-E x8)	3 PCI-E x8	Passive	No	X8DTU, X8DTU-F, X8DTU-LN4F+, H8DGPU, H8DGPU-F, H8DGPU-LN4F+, X9DBU-3F, X9DBU-4F	UIO Chassis	N/A	No	Yes	Yes	Yes
	RSC-R2UU-UE8	2U UIO LHS	Universal SXB2 Slot (UIO)	1 UIO 11 PCI-E x8	Passive	No	H8DMU+, H8SMU, X7SBU, X7DCU, X7DBU, X7DWU, X7DGPU, X8DTU-6F, X8DTU-6TF*	UIO Chassis	N/A	No	Yes, depending on MB	No	No
	RSC-R2UU-ZE8	2U UIO LHS	Universal SXB2 Slot (UIO)	2 PCI-E x8	Passive	No	H8DMU+, H8SMU, X7SBU, X7DCU, X7DBU, X7DWU, X7DGPU, X8DTU-6F, X8DTU-6TF*	UIO Chassis	N/A	No	Yes, depending on MB	No	No

## 2U UIO (Right Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R2UU-ZE8R	2U UIO RHS	PCI-E x16	2 PCI-E x8	Passive	No	H8DMU+, X7DWU	UIO Chassis	2021M-UR+V, 2021M-UR+B, 6025W-URV, 6025W-URB	No	Yes, depending on slots	No	No
	RSC-R2UU-2E4E8R	2U UIO RHS	PCI-E x16	2 PCI-E x4; 1 PCI-E x8	Passive	No	X8DTU-LN4F+	UIO Chassis	2026T-URF4+, 6026T-URF4+	No	Yes	No	No
	RSC-R2UU-2E4R	2U UIO RHS	PCI-E x8	2 PCI-E x4	Passive	No	X8DTU, X8DTU-F, X8DTU-6F+, X8DTU-6TF+, X9DBU-3F, X8SIU-F, X9SPU-F, X7SBU, X7DWU, X8DTU-LN4F, X8SIU	UIO Chassis	N/A	No	Yes	Yes	Yes
	RSC-R2UU-2E2E4R	2U UIO RHS	PCI-E x8	2 PCI-E x2; 1 PCI-E x4	Passive	No	H8DGPU-LN4F+	UIO Chassis	N/A	No	Yes	No	No

## 2U UIO (Left Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R2UW-2E8E16+	2U WIO LHS	WIO Slot	2 PCI-E x16; 1 PCI-E x8	Passive	Yes	X9DRW-4F, X9DRW-3F, X9DRD-4T+, X10DRW-series and X10QRH+, X10DRW-series and X10QRU series	WIO CHASSIS	N/A	Yes	Yes	Yes	Yes
	RSC-R2UW-2E8E16	2U WIO LHS	WIO Slot	2 PCI-E x8; 1 PCI-E x16	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-4F, X9DRW-3F, X9DRW-3TF+, X9DRW-3LN4F+	WIO CHASSIS	6027R-72RFTP+, 2027R-72RFTP+	Yes	Yes	Yes	Yes
	RSC-R2UW-U2E8	2U WIO LHS	WIO Slot	2 PCI-E x8; 1 UIO	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-4F, X9DRW-3F, X9DRW-3TF+, X9DRW-3LN4F+, X10DRW-series	WIO CHASSIS	N/A	No	Yes	Yes	Yes
	RSC-R2UW+-2E16-2E8	2U WIO LHS	WIO Slot	2 PCI-E x16; 2 PCI-E x8	Passive	Yes	X9DRW-3LN4F+, X9DRW-3TF+, X9DRW-7TFP+	WIO CHASSIS	N/A	Yes	Yes	Yes	Yes
	RSC-R2UW-4E8	2U WIO LHS	WIO Slot	4 PCI-E x8	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-4F, X9DRW-3F, X9DRW-3TF+, X9DRW-3LN4F+, X10DRW-series	WIO CHASSIS	5027R-WRF, 2027R-N3RF4+, 2027R-N3RFT+, 6027R-N3RF4+, 6027R-N3RFT+	No	Yes	Yes	Yes





## 2U WIO (Right Hand Side)

Product Image	Model Name	Category/Form Factor	MB Fit Type	Riser Card Output Type	Design Type	X9 Support	Motherboards	Chassis	SuperServer	GPU Support	Gen2 Support	Gen3 Support	Auto Detection
	RSC-R2UW-2E4R	2U WIO RHS	1 PCI-E x16	2 PCI-E x4	Passive	Yes	X9SRW-F, X9SRW-3F, X9DRW-F-SS022, X10SRW-F	2U WIO chassis	N/A	No	Yes	Yes	Yes
	RSC-R2UW-E8R-UP	2U WIO RHS	WIO Slot	1 PCI-E x8	Passive	Yes	X9SRW-3F, X9SRW-F, X10DDW-I and X10SRW-F	WIO Chassis	5027R-WRF	No	Yes	Yes	Yes
	RSC-R2UW-2E8R	2U WIO RHS	WIO Slot	2 PCI-E x8	Passive	Yes	X9DRW-4FX9DRW-3FX-9DRW-3TF+X-9DRW-3LN4F+	WIO Chassis	2027R-72RFTP+, 6027R-72RFTP+	No	Yes	Yes	Yes



# TRUSTED PLATFORM MODULE TPM

## Provisioned TPM

TPM	Types	Differentiators	FormFactors	Pictures	Model Numbers
Provisioned TPM+ TXT	Server (S)	96-Byte index Memory Support: Intel® Xeon® Processor E5, Intel® Xeon® Processor E7	Vertical (V)		AOM-TPM-9655V-S AOM-TPM-9665V-S
			Horizontal (H)		AOM-TPM-9655H-S AOM-TPM-9665H-S
	Client (C)	48-Byte index Memory Support: Intel® Xeon® Processor E3 Intel® Core™ i7 Processor, Intel® Core™ i5 Processor	Vertical (V)		AOM-TPM-9655V-C AOM-TPM-9665V-C
			Horizontal (H)		AOM-TPM-9655H-C AOM-TPM-9665H-C

## TPM Products

TCG	Model #	Form Factor	TXT*	MB Platform	Supported CPUs
TPM 1.2	AOM-TPM-9655V	Vertical	N/A	Intel® & AMD	Any MB's Supported CPU
	AOM-TPM-9655V-S	Vertical	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9655V-C	Vertical	Client	Intel®	Intel® Core™ i5 Intel® Core™ i7 Processor, Intel® Core™ i5 Processor & Intel® Xeon® Processor E3
	AOM-TPM-9655H	Horizontal	N/A	Intel® & AMD	Any MB's Supported CPU
	AOM-TPM-9655H-S	Horizontal	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9655H-C	Horizontal	Client	Intel®	Intel® Core™ i5 Processor Intel® Core™ i7 Processor, Intel® Xeon® Processor E3
TPM 2.0	AOM-TPM-9665V	Vertical	N/A	Intel	Any MB's Supported CPU
	AOM-TPM-9665V-S	Vertical	Server	Intel®	Intel® Xeon® Processor E5, Intel® Xeon® Processor E7
	AOM-TPM-9665V-C	Vertical	Client	Intel®	Intel® Core™ i3 Processor, Intel® Core™ i5 Processor, Intel® Core™ i7 Processor, Intel® Xeon® Processor E3
	AOM-TPM-9665H	Horizontal	N/A	Intel	Any MB's Supported CPU
	AOM-TPM-9665H-S	Horizontal	Server	Intel®	Intel® Core™ i5 Processor, Intel® Core™ i7 Processor
	AOM-TPM-9665H-C	Horizontal	Client	Intel®	Intel® Core™ i5 Processor, Intel® Core™ i7 Processor, Intel® Xeon® Processor E3

\* TPM Provisioning is required for TXT function, selecting server or client provisioning depends on the CPU and MB that is going to be used

## High Performance, Scalability & Flexibility for Next Generation Enterprise Server/Storage Solutions



**New! SAS 3.0 (12Gbps)**

**New! SAS 3.0 (12Gbps)**



SAS 3.0/SATA 3.0



SAS 3.0/SATA 3.0



SAS 2.0/SATA 3.0

Model Part#	CSE-M14TQC	CSE-M28SACB / CSE-M28SACB-OEM	CSE-M28SAB / CSE-M28SAB-OEM
Occupancy	1 x 5.25" drive bays	2x 5.25" drive bays	2x 5.25" drive bays
Capacity	4 x 2.5" hot-swap SAS 3.0/SATA 3.0 hard drives	8x 2.5" hot-swap SAS 3.0/SATA 3.0 hard drives	8x 2.5" hot-swap SAS2.0/SATA 3.0 hard drives
Expander Card	N/A	N/A	N/A
Cooling Subsystem	40mm exhaust fan	40mm exhaust fan (CSE-M28SACB only)	40mm exhaust fan (CSE-M28SAB only)
System Monitoring	<ul style="list-style-type: none"> <li>Overheat LED &amp; alarm</li> <li>Drive activity LED</li> <li>Fan failure LED</li> <li>4x 7-pin SATA connectors (support 12Gbps)</li> </ul>	<ul style="list-style-type: none"> <li>Overheat LED &amp; alarm</li> <li>Drive activity LED &amp; failure LED</li> <li>Fan failure LED &amp; Alarm (CSE-M28SACB only)</li> <li>2x MiniSAS HD connectors</li> </ul>	<ul style="list-style-type: none"> <li>Fan fail detection LED &amp; alarm (CSE-M28SAB only)</li> <li>Overheat LED indication alarm</li> <li>Drive activity/failure LED</li> <li>2x iPASS connectors</li> </ul>
Dimensions	5.8"W x 1.6"H x 7.9"H (147mm x 40mm x 200mm)	CSE-M28SACB: 5.8"W x 3.4"H x 7.4"D (146 x 85 x 187mm) CSE-M28SACB-OEM: 5.8"W x 3.4"H x 6.2"D (146 x 85 x 157mm)	CSE-M28SAB: 5.8"W x 3.4"H x 7.4"D (146 x 85 x 187mm) CSE-M28SAB-OEM: 5.8"W x 3.4"H x 6.2"D (146 x 85 x 157mm)
Gross Weight	4 lbs	5 lbs	5 lbs

**New! SAS 3.0 (12Gbps)**

**New! SAS 3.0 (12Gbps)**



SAS/SATA



SAS 3.0/SATA 3.0



SAS 3.0/SATA 3.0

Model Part#	CSE-M35T-1/M35TQ	MCP-220-82616-0N MCP-220-83608-0N MCP-220-84610-0N	MCP-220-81506-0N MCP-220-81504-0N
Occupancy	3x 5.25" drive bays	1x rear drive bay	1x slim DVD or slim floppy size drive bay
Capacity	5x 3.5" hot-swap SAS/SATA hard drives	2x 2.5" hot-swap SAS3/SATA3 hard drives	1x 2.5" hot-swap SAS3/SATA3 hard drive
Expander Card	N/A	N/A	N/A
Cooling Subsystem	90mm exhaust fan	N/A	N/A
System Monitoring	<ul style="list-style-type: none"> <li>Fan fail detection LED &amp; alarm</li> <li>Overheat LED indication</li> <li>Drive activity LED</li> <li>SCM35TQ has "Drive Failure LED"</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring drive activity, rebuild or failure</li> <li>Jumper settings for various configurations</li> <li>12G support with optional CBL-SAST-0699</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring drive activity, rebuild or failure</li> <li>Support SGPIO if connected to logical port #0</li> <li>12G support with optional CBL-SAST-0699</li> <li>Slim drive tray (up to 9.5mm)</li> </ul>
Dimensions	5.8"W x 5"H x 9.7"D (146 x 129 x 245mm)	82616: 3.26" x 1.36" x 6.26" (83x35x159mm) 83608: 3.2" x 1.6" x 6.1" (81x41x155mm) 84610: 6.0" x 0.76" x 6.7" (152x20x170mm)	Slim DVD size: 5.05" W x 0.5" H x 6.3" D (128x13x160mm) Slim floppy size: 3.8" W x 0.5" H x 6.3" D (97x13x160mm)
Gross Weight	7.5 lbs	1.5 lbs	1 lbs

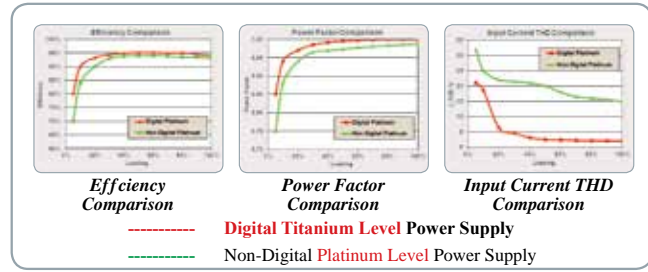


# POWER SUPPLIES

## Digital Switching Power Supplies

### 96% Titanium Level Power Efficiency!

- New generation Digital Switching Power Supplies
- Improved power efficiency (5~10%) in light loading
- Improved power factory correction (5~10%) in light loading
- Reduce current THD (15%) power transmission loss
- Real-time monitoring & enhanced system reliability



Model	PWS-1K02A-1R	PWS-1K03A-1R	PWS-1K04A-1R	PWS-1K62A-1R	PWS-1K22A-1R
Total Output Power	800W / 1000W	800W / 1000W	800W/1000W	1000W / 1600W	800W / 1200W
Input	100-127Vac/200-240Vac/ 50-60Hz	100-127Vac/ 200-240Vac/ 50-60Hz	100-127Vac / 200-240Vac / 50-60Hz	100-127Vac/200-240Vac/ 50-60Hz	100-127Vac / 200-240Vac/ 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	20.3 x 7.35 x 4	33.6 x 7.6 x 4	18.5 x 7.35 x 4	20.3 x 7.35 x 4	20.3 x 7.35 x 4
Output Type*	25Pair Gold Finger	Backplanes Available	BackPlanes (gold finger)	25Pair Gold Finger	25Pair Gold Finger
Redundant	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU Data and PMBus	FRU Data and PMbus	FRU data and PMbus	FRU Data and PMBus	FRU Data and PMbus
+5V	-	-	-	-	-
+12V	66.7A (100Vac-127Vac), 83A (200Vac-240Vac)	66.7A (100Vac-127Vac) 83A (200Vac-240Vac)	66.7A (100-127Vac) / 83A (200-240Vac)	83.3A (100Vac-127Vac), 133A (200Vac-240Vac)	66.7A (100Vac-127Vac) / 100A (200Vac-240Vac)
+3.3V	-	-	-	-	-
5VSB	12Vsb 2.1A	4A	-	12Vsb 2.1A	12Vsb 2.1A
-12V	-	-	12Vsb 2.1A	-	-
Efficiency					



Model	PWS-2K05A-1R	PWS-2K04A-1R PWS-2K04F-1R	PWS-2K20A-1R	PWS-1K68A-1R	PWS-1K23A-1R
Total Output Power	1000W/1800/1980/2000	1000W / 1800W / 1980W / 2000W	1200W/1800W1980W/ 2090W/2200W	800W / 1600W	1000W / 1200W
Input	100-120/200-220/220-230/ 230-240Vac/ 50-60Hz	100-127/200-220Vac/ 220-230/230-240Vac/ 50-60Hz	100-127Vac/ 200-220Vac/ 220-230Vac/ 230-240Vac(UL, cUL only)/ 50-60Hz	100-140Vac/ 180-240Vac/ 50-60Hz	100-127Vac / 200-240Vac/ 50-60Hz
Form Factor	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	26.5 x 7.35 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4
Output Type*	Backplanes Available	Backplanes Available	BackPlanes (gold finger)	Backplanes available	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU Data and PMbus	FRU Data and PMbus	FRU data and PMbus	FRU Data and PMBus	FRU Data and PMbus
+5V	-	-	-	-	-
+12V	83.3A (100-120Vac), 150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac); UL/cUL use: 166.7A (200-240Vac)	83.3A (100-127Vac) 150A (200-220Vac) 165A (220-230Vac) 166.7A (230-240Vac) UL/cUL: 166.7A (200-240Vac)	100A (100-127Vac)/ 150A (200-220Vac)/ 165A (220-230Vac)/ 174.17A (230-240Vac)/ 183.3A (220-240Vac, UL/cUL only)	66.6A (100Vac-140Vac) 133A (180Vac-240Vac)	83A (100Vac-127Vac), 100A (200Vac-240Vac)
+3.3V	-	-	-	-	-
5VSB	12Vsb 2.1A	1A	1A	1A	4A
-12V	-	-	-	-	-
Efficiency					



Model	PWS-2K01A-BR	PWS-2K21A-2R	PWS-802A-1R	PWS-1K05A-1R	PWS-2K22A-1R	PWS-2K21A-BR
Total Output Power	1000W / 1800W / 1980W / 2000W	1200W/1800W1980W/ 2090W/2200W	800W	800W / 1000W	1200W / 1800W / 1980W / 2090W / 2200W	1200W/1800W1980W/ 2090W/2200W
Input	100-127Vac / 200-240Vac / 50-60Hz	100-127Vac/ 200-220Vac/ 220-230Vac/ 230-240Vac/ 220-240Vac (UL, cUL only)/ 180-220Vac (UL, cUL only)/ 230-240Vdc (CCC only)/ 50-60Hz	100-240Vac / 200-240Vdc / 50-60Hz	100-127Vac/200-240Vac/ 50-60Hz	100-127 / 200-220 / 220-230 / 230-240 / 220-240 Vac / 50-60Hz / 230-240Vdc	100-127Vac/ 200-220Vac/ 220-230Vac/ 230-240Vac/ 220-240Vac (UL, cUL only)/ 180-220Vac (UL, cUL only)/ 230-240Vdc (CCC only)/ 50-60Hz
Form Factor	Micro-Blade	2U	1U	1U	1U	Microblade/ superblade
Dimension (LxWxH) cm	28.33 x 10.65 x 8.4	10.65 x 20.35 x 8.24	33.6 x 7.6 x 4	36 x 3.8 x 4	48 x 4.5 x 4	24.53 x 10.65 x 8.4
Output Type*	Micro-Blade Midplane	BackPlanes (gold finger)	BackPlanes (gold finger)	Backplanes Available	Backplanes Available	BackPlanes (gold finger)
Redundant	Yes	Yes	Yes	Yes	Yes	Yes
PC Remote Monitoring	FRU Data and PMBus	FRU data and PMbus	FRU data and PMbus	FRU Data and PMBus	FRU Data and PMBus	FRU data and PMbus
+5V	-	-	-	-	-	-
+12V	83.3A (100-127Vac), 150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac), UL/cUL: 166.7A (200-240Vac)	100A (100-127Vac)/ 150A (200-220Vac)/ 165A (220-230Vac)/ 174.17A (230-240Vac)/ 183.3A (220-240Vac, UL, cUL only)/ 174.17A (180-220Vac, UL, cUL only)/ 174.17A (230-240Vdc, CCC only)	66A	66.7A (100Vac-127Vac), 83A (200Vac-240Vac)	100A (100-127Vac) / 150A (200-220Vac) 165A (220-230Vac) / 174.17A (230-240Vac) (180-220Vac, UL/cUL) / (230-240Vdc, CCC) 183.3A (220-240Vac, UL/cUL)	100A (100-127Vac)/ 150A (200-220Vac)/ 165A (220-230Vac)/ 174.17A (230-240Vac)/ 183.3A (220-240Vac, UL, cUL only)/ 174.17A (180-220Vac, UL, cUL only)/ 174.17A (230-240Vdc, CCC only)
+3.3V	-	-	-	-	-	-
5VSB	12Vsb 4.2A	-	4A	4A	12Vsb 2.1A	-
-12V	-	12Vsb: 2A	-	-	-	12Vsb 2.1A
Efficiency					Titanium (Certification TBA)	

# POWER SUPPLIES



Model	PWS-2K02P-1R PWS-2K02F-1R	PWS-1K41P-1R	PWS-1K28P-SQ	PWS-1K21P-1R	PWS-920P-SQ	PWS-741P-1R	PWS-721P-1R
Total Output Power	1100W / 1400W / 1800W / 1980W / 2000W	1100W / 1400W	1000W / 1280W	1000W / 1200W	920W	740W	720W
Input	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-140Vac / 180-240Vac / 50-60Hz	100-140Vac / 180-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4
Output Type*	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available
Redundant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
I <sup>2</sup> C Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	PMBus
+5V	-	-	-	-	-	-	-
+12V	91.7A (100-120Vac) 116.7A (120-140Vac) 150A (200-220Vac) 165A (220-230Vac) 166.7A (230-240Vac) UL/cUL: 166.7A (200-240Vac)	92A (100-140Vac) 116A (180-240Vac)	83A (100-140Vac) 106.7A (180-240Vac)	83A (100-140Vac) 100A (180-240Vac)	75A	61.7A	59A
+3.3V	-	-	-	-	-	-	-
5VSB	4A	4A	4A	4A	4A	4A	3A
-12V	-	-	-	-	-	-	-
Efficiency							

*New!*

*New!*

*New!*






*New!*



Model	PWS-501P-1R	PWS-2K03P-1R	PWS-1K66P-1R	PWS-1K64P-1R	PWS-751P-1R	PWS-606P-1R	PWS-608P-1R
Total Output Power	500W	1000/1800/1980/2000W	1000W / 1600W	1500W / 1600W	750W	600W	600W
Input	100-240Vac / 50-60Hz	100-120/ 200-220/ 220-230/230-240Vac/ 50-60Hz	100-127Vac, 200-240Vac / 50-60Hz	120-127, 200-240Vac / 50-60Hz	100-127, 200-240Vac / 50-60Hz	100-240Vac/ 50-60Hz	100-240Vac / 50-60Hz
Form Factor	1U	1U	1U	1U	1U	1U	1U
Dimension (LxWxH) cm	33.6 x 7.6 x 4	26.5 x 7.35 x 4	26.5 x 7.35 x 4	26.5 x 7.35 x 4	20.3 x 7.35 x 4	22 x 5.45 x 4	22 x 5.45 x 4.025
Output Type*	Backplanes Available	Backplanes available	Backplanes Available	Backplanes Available	25Pair Gold Finger	Backplanes Available	BackPlanes (gold finger)
Redundant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
I <sup>2</sup> C Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	PMBus
+5V	-	-	-	-	-	-	-
+12V	41.7A	83.3A (100-120Vac), 150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac); UL/cUL user: 166.7A (200-240Vac)	82A (100-127Vac) 132A (200-240Vac)	125(120-127Vac) / 133 (200-240Vac)	62.5A	50A	50A
+3.3V	-	-	-	-	-	-	-
5VSB	4A	12Vsb 3.5A	12Vsb 2A	12Vsb 2.1A	12Vsb 2.1A	3A	3A
-12V	-	-	-	-	-	-	-
Efficiency			-	-	-	-	-

# POWER SUPPLIES



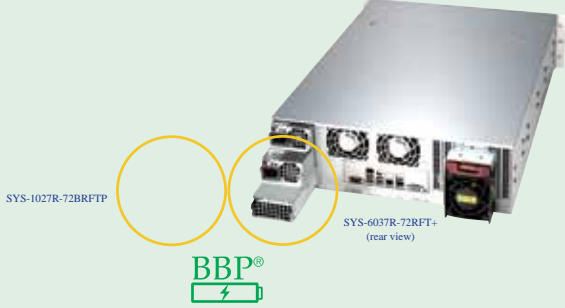
Model	PWS-503P-1R	PWS-1K43F-1R	PWS-1K41F-1R	PWS-1K81P-1R	PWS-1K67P-1R	PWS-656P-1H PWS-656S-1H
Total Output Power	500W	1200W / 1400W	1200W / 1400W	1000/1200/ 1800W	1200W / 1400W / 1600W	600W / 650W
Input	100-240Vac/ 50-60Hz	100-140Vac / 180-240Vac / 50-60Hz	100-140Vac / 180-240Vac / 50-60Hz	100-240Vac/ 50-60Hz	100-120/ 120-140/ 200-240Vac/ 50-60Hz	100 - 127Vac/ 200 - 240Vac/ 50-60Hz
Form Factor	1U	1U	1U	1U	Micro-Blade	1U
Dimension (LxWxH) cm	32 x 5.05 x 4.025	28.8 x 10.45 x 4.04	28.8 x 10.45 x 4.04	30.5 x 9.1 x 4	24.13 x 10.65 x 8.4	28 x 7.6 x 4
Output Type*	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Micro-Blade Midplane	24pin ATX Cable
Redundant	Yes	Yes	Yes	Yes	Yes	N/A
I <sup>2</sup> C Remote Monitoring	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus	FRU Data and PMBus
+5V	-	-	-	-	-	18A
+12V	42A	100A (100-140Vac) 117A (180-240Vac)	100A (100-140Vac) 116A (180-240Vac)	84A (100-120Vac) 100A (120-140Vac) 150A (200-240Vac)	100A (100-120Vac) / 116.7 (120-140Vac) / 133A (200-240Vac)	49A (100Vac-127Vac) 54A (200Vac-240Vac)
+3.3V	-	-	-	-	-	15A
5VSB	4A	6A	6A	4A	12Vsb 2A	3A
-12V	-	-	-	-	-	.5A
Efficiency						

**BBP2 + Power Supply All In One** New!

# BBP® (Battery Backup Power) Solutions

## Evolutionary Design to Replace UPS!

- Increases overall data center power efficiency
- Hot-swappable and easy deployed
- Eliminates UPS while maintaining system power stability and redundancy
- Frees UPS space to increase server density deployment
- Flexible configurations available for current Supermicro systems
- More cost-effective than traditional Datacenter UPS
- Fits most Supermicro SuperServers, Storage, and Embedded solutions



For detailed information, please contact your Supermicro sales representative; visit: <http://www.supermicro.com/BBP>

Model	PWS-206B-1R	PWS-1K03B-1R	PWS-1K01B-1R	PWS-1K20B-BR
<b>Total Output Power</b>	200W / 5 minutes	1000W / 2.5 minutes	Battery: Single module 500W 1.5mins Redundant w/ two modules 1000W 1.5mins; Output: 800/1000W, 100-240Vac	1200W / 35 seconds
<b>Input</b>	Work w/ PWS-406P-1R/ 407P-1R/606P-1R	Work w/ PWS-1K03A-1R/ 1K23A-1R/1K28P-5Q/ 1K68A-1R/2K02P-1R/ 2K04A-1R/501P-1R/ 741p-1R	100-127Vac: 800W 200-240Vac: 1000W	works with PWS-2K01A-BR/ PWS-2K21A-1BR/ PWS-1K67P-1R
<b>Form Factor</b>	1U	1U	1U	microblade/ superblade
<b>Dimension (LxWxH) cm</b>	22 x 5.45 x 4	36 x 7.6 x 4	33.6 x 7.6 x 4	10.65 x 24.5 x 8.4
<b>Output Type*</b>	Backplanes available	Backplanes available	Backplanes available	Backplanes available
<b>Redundant</b>	Yes	Yes	Yes	Yes
<b>I²C Remote Monitoring</b>	FRU/Smart battery I²C	FRU/Smart battery I²C	FRU Data and PMBus	FRU/Smart battery I²C
<b>+5V</b>	-	-	-	-
<b>+12V</b>	16.7A	83.3A	From AC Input: 66.7A(100-127V), 83A (200-240V) Battery Output: 41.66A	100A (11.2-12.9Vdc)
<b>5VSB</b>	2A	4A	4A	-
<b>-12V</b>	-	-	-	12Vsb 2.5A
<b>Efficiency</b>	Online mode power consumption <1W	Online mode power consumption <1W		Online mode battery power consumption less than 5W

## DC Power Solutions



New!

New!

New!

Model	PWS-661P-1R	PWS-654-1R	PWS-601D-1R	PWS-1K11P-1R	PWS-711-1R	PWS-1K30D-1R	PWS-1K60D-1R
<b>Total Output Power</b>	660W	650W	600W	850W / 1010W	710W	1300W	1600W
<b>Input</b>	-42Vdc to -72Vdc DC 48V Input	-44Vdc to -72Vdc	-44Vdc to -65Vdc	-36Vdc to -76Vdc	-36Vdc to -76Vdc	-48Vdc to -65Vdc	-48Vdc to -60Vdc
<b>Form Factor</b>	1U	1U	1U	1U	1U	1U	1U
<b>Dimension (LxWxH)cm</b>	32.2 x 5 x 4	32.2 x 5.45 x 4	22 x 5.45 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	20.3 x 7.35 x 4	26.5 x 7.35 x 4
<b>Output Type*</b>	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	25pairs Gold Finger Connector	25pairs Gold Finger Connector
<b>Redundant</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>I²C Remote Monitoring</b>	FRU Data and PMbus	FRU Data	FRU Data	FRU Data and PMbus	FRU Data and PMbus	FRU Data	FRU Data and PMbus
<b>+5V</b>	-	-	-	-	-	-	-
<b>+12V</b>	55A	53.28A	50A	70A (-36 to -42Vdc) 83A (-43 to -76Vdc)	59A	108.3A	133A
<b>+3.3V</b>	-	-	-	-	-	-	-
<b>5VSB</b>	4A	3A	3A	4A	4A	12Vsb 2.1A	12Vsb 3.5A
<b>-12V</b>	-	-	-	-	-	-	-
<b>Efficiency</b>	Typical 90%+	Typical 90%+	Typical 90%+	Typical 90%+	Typical 88%+	-	Typical 90%+

New!

New!

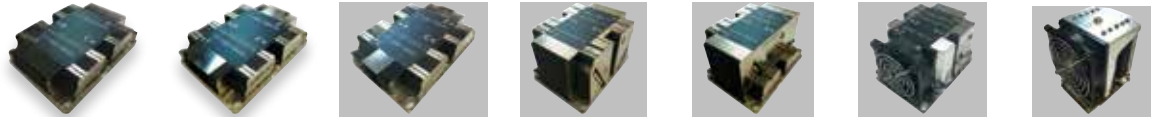
New!

New!

Model	PWS-0061	PWS-2K04A-240	PWS-1K28D-240	PWS-706P-1R	PWS-707P-1R	PWS-503D-240	PWS-407P-1R
<b>Total Output Power</b>	410W	2000W / 1980W / 1800W	1280W	700W/750W	700W/750W	500W	400W
<b>Input</b>	-36Vdc to -72Vdc	230-240Vdc/ 200-220/220-230/230-240Vac/ 50-60Hz	200-240Vdc/200-240Vac/ 50-60Hz	100-140Vac/200-240Vac/ 200-240Vdc 50-60Hz	100-140Vac/200-240Vac/ 200-240Vdc 50-60Hz	200-240Vdc/100-240Vac/ 50-60Hz	100-240Vac/ 200-240Vdc/ 50-60Hz
<b>Form Factor</b>	1U	1U	1U	1U	1U	1U	1U
<b>Dimension (LxWxH) cm</b>	24 x 10 x 4	33.6 x 7.6 x 4	33.6 x 7.6 x 4	32 x 5.45 x 4.025	32 x 5 x 4.025	32 x 5.05 x 4.025	22 x 5.45 x 4
<b>Output Type*</b>	24pin ATX Cable Output	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available	Backplanes Available
<b>Redundant</b>	N/A	Yes	Yes	Yes	Yes	Yes	Yes
<b>I²C Remote Monitoring</b>	N/A	FRU Data and PMbus	FRU Data and PMbus	FRU Data and PMbus	FRU Data and PMbus	FRU Data and PMbus	FRU Data and PMbus
<b>+5V</b>	35A	-	-	-	-	-	-
<b>+12V</b>	32A	150A (200-220Vac), 165A (220-230Vac), 166.7A (230-240Vac), 166.7A(230-240Vdc)	106.7A	58A (100-140Vac) / 62A (200-240Vac) / 62A (200-240Vdc)	58A (100-140Vac) / 62A (200-240Vac) / 62A (200-240Vdc)	42A	33A
<b>+3.3V</b>	20A	-	-	-	-	-	-
<b>5VSB</b>	3A	1A	4A	3A	3A	3A	3A
<b>-12V</b>	-12V: 0.5A	-	-	-	-	-	-
<b>Efficiency</b>	Typical 77%+	Typical 96%	Typical 95%+	-	-	-	-

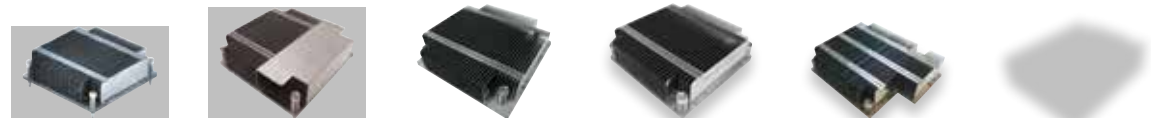
# HEATSINKS X11/X10/X9

## X11 Heatsinks 1U/2U/4U Passive/Active CPU Heatsinks for UP, DP, and MP Systems

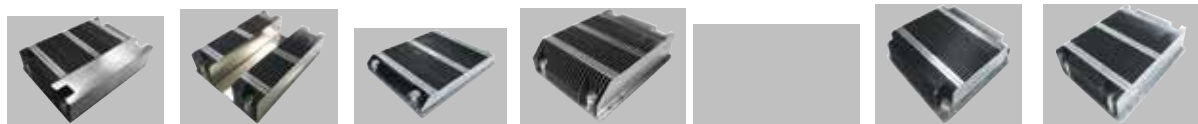


Part Number	SNK-P0067PS	SNK-P0067PSM	SNK-P0067PSMB	SNK-P0068PS	SNK-P0068PSC	SNK-P0068APS4	SNK-P0070APS4
Form Factor	1U Passive Narrow Retention Mechanism UP/DP	1U Passive Proprietary (Middle Air Channel) Narrow Retention Mechanism DP	1U Passive Proprietary (Middle Air Channel) Narrow Retention Mechanism DP	2U Passive Narrow Retention Mechanism UP/DP	2U Passive Proprietary (Side Air Channel) Narrow Retention Mechanism DP	2U Active Narrow Retention Mechanism UP/DP	4U Active Narrow Retention Mechanism UP/DP
CPU Type	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors	Intel® Xeon® Scalable Processors
Socket Type	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0	LGA 3647-0
Major Integrated Part	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Copper Fins Copper + Aluminium Base Heat Pipes	Aluminium Fins Copper + Aluminium Base Heat Pipes Cooling Fan (Front Side)	Aluminium Fins Copper + Aluminium Base Heat Pipes Cooling Fan (Front Side)
Dimension (mm)	108L x 78W x 25.5H	108L x 78W x 25.5H	108L x 78W x 25.5H	108L x 78W x 64H	108L x 78W x 64H	108L x 78W x 64H	108L x 92.5W x 126H
Mounting Method	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws	Springs + Screws

## X11/X10, 1U Passive CPU Heatsinks for UP, DP, and MP Systems



Part Number	SNK-P0037P	SNK-P0041	SNK-P0046P	SNK-P0047P	SNK-P0047PD	SNK-P0047PS
Form Factor	1U Passive, DP	Proprietary 1U Passive, DP (X9DBL Front CPU)	1U Passive, UP (X11/X10/X9)	1U Passive, UP, DP	1U Passive, Proprietary, DP	1U Passive, UP, DP, MP
CPU Type	Intel® Xeon® Processor E5-2400 & Intel® Xeon® Processor E5-2400 v2 product families	Intel® Xeon® Processor E5-2400 & Intel® Xeon® Processor E5-2400 v2 product families	Intel® Xeon® Processor E3-1200 product family; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2, and Intel® Xeon® Processor E5-4600 product families
Socket Type	LGA 1356	LGA 1356	LGA 1155/1151/1150	LGA 2011 (Square ILM)	LGA 2011 (Square ILM)	LGA 2011 (Narrow ILM)
Major Integrated Part	Copper + Aluminum Base Aluminum Fins Heat Pipes	Copper Base Aluminum Fins	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes
Dimension (mm)	90L x 90W x 27H mm	90L x 90W x 27H mm	95L x 95W x 27H mm	90L x 90W x 26H mm	90L x 110W x 27H mm	104L x 80W x 26H mm
Mounting Method	Screws + Springs	Screws + Springs	Screws + Springs Mounting Bracket (BKT-0028L Included)	Screws + Springs	Screws + Springs	Screws + Springs



Part Number	SNK-P0047PSC	SNK-P0047PSM	SNK-P0047PSR	SNK-P0047PS+	SNK-P0047PW	SNK-P0057P	SNK-P0057PS
Form Factor	Proprietary 1U Passive, DP (1U 3/4 GPU/ Coprocessor Front CPU)	Proprietary 1U Passive, DP (2U Twin2+ Front CPU), Twin Pro2	Low Profile Passive, Proprietary, UP (X10/X9), 12-node MicroCloud Servers	Proprietary 1U Passive, UP (X10/X9) (Micro Cloud Server)	Proprietary 1U Passive, DP (2U Twin2 Rear CPU)	1U Passive, UP, DP	1U Passive, UP, DP, MP
CPU Type	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E3-1200 v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E3-1200 v4/v3/v2 product families; Intel® Core™ i3 Processor; Intel® Pentium® Processor & Intel® Celeron® Processor	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2, and Intel® Xeon® Processor E5-4600 product families
Socket Type	LGA 2011 (Narrow ILM)	LGA 2011 (Narrow ILM)	LGA 1150 & LGA 1155	LGA 1155 & LGA1150, LGA2011 (Narrow ILM).	LGA 2011 (Square ILM)	LGA 2011 (Square ILM)	LGA 2011 (Narrow ILM)
Major Integrated Part	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Copper + Aluminum Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes	Copper + Aluminum Base Copper Fins Heat Pipes
Dimension	104L x 80W x 26H mm	104L x 80W x 26H mm	104L x 80W x 15H mm	104L x 80W x 30H mm	90L x 116W x 26H mm	90L x 90W x 26H mm	104L x 80W x 26H mm
Mounting Method	Screws + Springs	Screws + Springs	Springs + Screws	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs

### X10 and X9 2U Passive CPU Heatsinks for UP, DP, and MP Systems

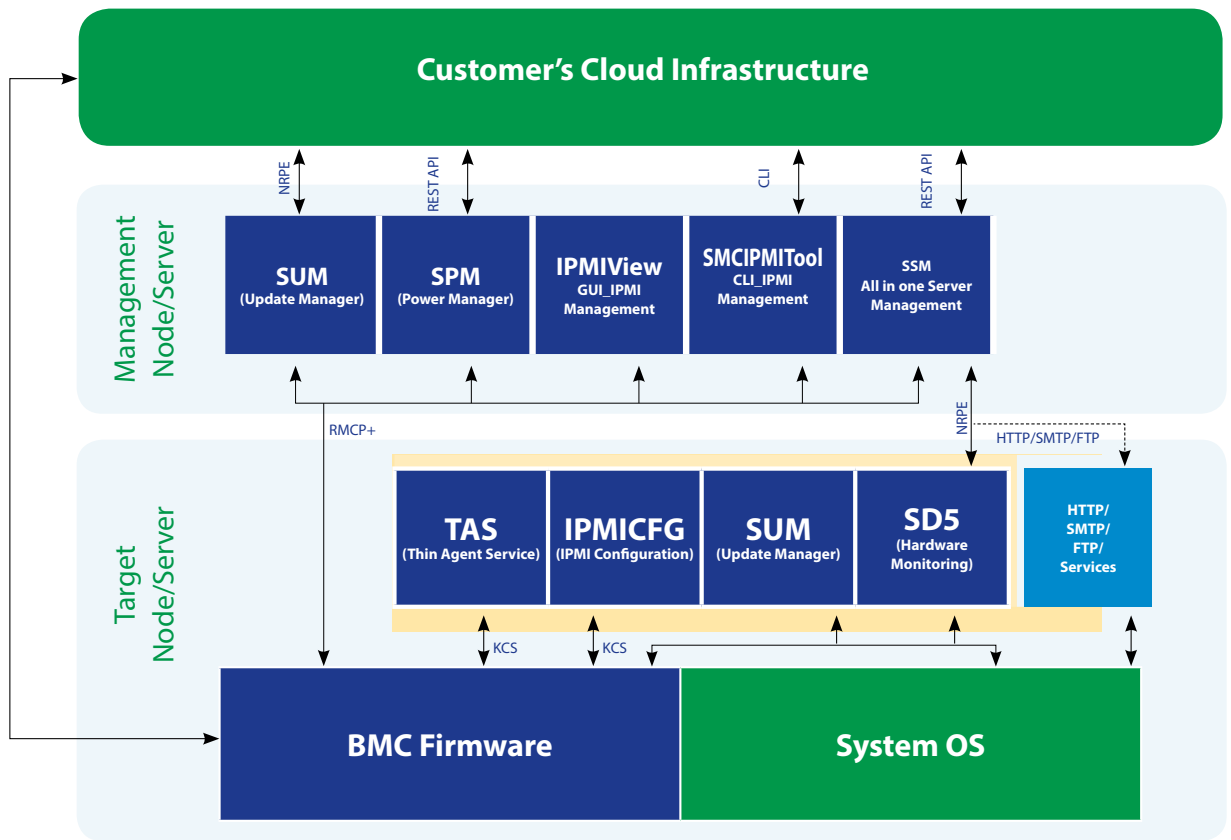


Part Number	SNK-P0038P	SNK-P0048P	SNK-P0048PS	SNK-P0048PSC	SNK-P0048PW	SNK-P2048P
Form Factor	2U(+) Passive, DP	2U(+) Passive, UP, DP	2U(+) Passive, UP, DP, MP	Proprietary 2U Passive, DP (2U WIO+ Server)	Proprietary 2U Passive, DP (2U Twin Rear CPU)	Proprietary 2U Passive, DP (HFT Series Servers)
CPU Type	Intel® Xeon® Processor E5-2400 product family & E5-2400 v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 product family and Intel® Xeon® Processor E5-4600 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families	Intel® Xeon® Processor E5-2600 v4/v3/v2 product families
Socket Type	LGA 1356	LGA2011 (Square ILM)	LGA2011 (Narrow ILM)	LGA2011 (Narrow ILM)	LGA 2011 (Square ILM)	LGA2011 (Square ILM)
Major Integrated Part	Copper + Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes	Aluminum Base Copper + Aluminum Fins Heat Pipes	Aluminum Base Aluminum Fins Heat Pipes
Dimension	90L x 90W x 64H mm	90L x 90W x 64H mm	104L x 80W x 64H mm	104L x 80W x 64H mm	90L x 116W x 64H mm	90L x 170W x 64H mm
Mounting Method	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs	Screws + Springs





# SERVER MANAGEMENT UTILITIES



## Supermicro Server Management Utilities

Server management utilities assist data center system administrators to manage hardware issues such as server availability and firmware upgrades to reduce server downtime. Supermicro has developed a multifunction suite of tools that can perform health monitoring, power management and firmware maintenance to help deploy and maintain servers in data centers. Our solutions are designed for easy automation with existing management infrastructure using CLI and REST APIs. In data centers, Supermicro Server Management Utilities provides you all the necessary functions like:

### Remotely managing the health of hardware and operating system services:

Helps IT operators to monitor the health of system components through Agent and Agent-less based solutions

### Managing power consumption of nodes in cluster:

Optimize the power consumption of your server rack. Monitor and apply policies to maximize compute density per rack and avoid unexpected server shutdowns.

### Managing BIOS provisioning through BMC/IPMI:

Allows you to manage system BIOS upgrades and configurations uniformly across multi-environment deployments through baseboard management controller.

### Execute commands on multiple target systems in parallel:

Perform parallel firmware upgrades, system memory and power commands, and many more through SSL and RMCP+.

### Execute commands on multiple target systems through Redfish API:

Perform API execution for server health, system inventory, power info, event notification and many more through secure socket layer (SSL).

### Software SKUs:






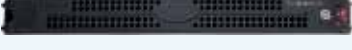












SFT-DCMS-Single:	Per node license for System Management Suite (all packages)
SFT-OOB-LIC:	Per node license for OOB firmware maintenance mechanisms
SFT-SPM-LIC:	Per node license for Power Management Utility

\*AMD platform not supported.



# FRONT BEZELS/LCD

**New!**

1U Rackmount Chassis		
OLCD Kit & Accessories Standard 3.5" drive with 0.95 OLED, fit 1x 2.5"HDD, digital color	MCP-220-00119-0B	
LCD Kit & Accessories 5.25" USB LCD Kit	MCP-220-00095-0B	
SC813, SC813M, SC815, SC819 (Redundant Power) series Please contact tech support for LCD programming instruction package	MCP-210-00007-01 (Black)	
SC813, SC813M, SC815, SC818, SC819(U)* (Redundant Power) series Does not support SC818G series	CSE-PTFB-813LB (Black) CSE-PTFB-813L (Beige)	
SC113, SC113M, SC116, SC119(U)*, SC514 series No front LED indicator support	MCP-210-11601-0B (Black)	
SC813, SC813M, SC815, SC818, SC819(U)* (Redundant Power) series Does not support SC818G series	CSE-PTFB-813-02B (Black) CSE-PTFB-813-02 (Beige)	
SC812 series Does not support SC812L series	CSE-PTFB-812 (Beige) CSE-PTFB-812B (Black)	
SC512, SC512L, SC512F-260 series Does not support SC512F-280/350/441/520/600 series	MCP-210-00028-01 (Black) MCP-210-00028-02 (Beige)	
SC512, SC512L, SC512F-260 series Does not support SC512F-280/350/441/520/600 series	MCP-210-00005-01 (Black) MCP-210-00005-02 (Beige)	
SC512, SC512L, SC512F-260 series Does not support SC512F-280/350/441/520/600 series Please contact tech support for LCD programming instruction package	MCP-210-00033-01(OEM) (Black)	
2U Rackmount Chassis		
SC822, SC823 series	CSE-PTFB-820B (Black) CSE-PTFB-820 (Beige)	
SC825, SC828 series	MCP-210-82503-0B (Black)	
SC825M series	MCP-210-82502-0B (Black)	
SC213, SC216, SC217, SC219(U)*, SC826 series SC827 series (Rev. A5 or later), SC829(U)* series	MCP-210-82601-0B (Black)	
3U Rackmount Chassis		
SC835 series	MCP-210-83501-0B (Black)	
SC836, SC837 series	MCP-210-83601-0B (Black)	
4U Rackmount Chassis		
SC842 series	MCP-210-84201-0B (Black)	
SC846, SC847, SC848, SC417, SC418 series	MCP-210-84601-0B (Black)	

\* Exception: Do not support auto-latch design handles

# SUPERRACK® TOTAL SOLUTIONS



**42U Open Frame**  
SRK-42OR-03  
(1016mm Deep)  
Generation 2



**42U Enclosure**  
SRK-42SE-03  
(1016mm Deep)  
Generation 2



**42U Open Frame**  
SRK-42OR-01  
(950mm Deep)



**42U Open Frame**  
SRK-42OR-02  
(1175mm Deep)



**42U Enclosure**  
SRK-42SE-01  
(1000mm Deep)



**42U Enclosure**  
SRK-42SE-02  
(1225mm Deep)

Supermicro's SuperRack® systems were designed for ease of integration, implementation, and deployment. Their easy rear access and modularized Building Block design makes them ideal for hot-swap-capable servers, such as Supermicro's Twin and Double-Sided Storage® families. For a rack system that is convenient, reliable, and customizable, the Supermicro SuperRack® is the ideal choice.

### Key Features:

**Per-U Design** - Ground-breaking Per-U design concept simplifies cable management and minimizes integration time

**Accessible** - Versatile Front and Rear access hot-plug optimizations provide an improved service experience

**Optimized Air Flow** - Reduced cabling optimizes air flow and improves cooling

**Building Block Design** - Building-block design and intuitive installation process reduce overall deployment schedules

**Expandable** - With unique add-on expansion units the SuperRack® easily accommodates many different server configurations

**Customizable** - Fully customizable options offer a well-rounded total Rack solution and service

**SuperRack® Total Solution** - Supermicro provides rack configuration, integration, testing, burn-in, and shipping services delivering an integrated rack system to the end-user. Please contact your Supermicro sales representative for details.



• Versatile Front and Rear access hot-plug optimizations



• Per-U Design simplifies cable management and minimizes integration time

## SuperRack® Solutions: Pre-Configured, Fully Tested and Application Optimized

- Hadoop Clusters for Big Data Analytics
- Rack Solutions for Virtualization and Cloud Computing
- Rack Solutions for Search Engine, Web 2.0
- HPC Clusters with GPU/Coprocessor Accelerator
- Scale-Out Storage with Extreme Drive Density
- Rack Integration Service from Design to Delivery

For detailed information, please contact your Supermicro sales representative; visit: <http://www.supermicro.com/products/rack>



42U SuperRack® Front View

(Rear View)





# CABLES

External Copper 40 Gb/s to 4x 10 Gb/s						
SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-NTWK-0719	ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 1M, 30AWG, Mellanox	1	QSFP+ to 4X SFP+	Passive	Copper	40G to 4x 10G
CBL-NTWK-0720	ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 3M, 30AWG, Mellanox	3				
CBL-NTWK-0721	ETHERNET, 40GbE/QSFP+ to 4x 10GbE/SFP+, PASSIVE, 5M, 25AWG, Mellanox	5				
External Fiber 40 Gb/s						
SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-QSFP+AOC-1M	IB/ETHERNET, QSFP, QDR, 40GbE, FIBER, ACTIVE, PULL, 1M	1	QSFP+	Active	Fiber	40 Gb/s
CBL-QSFP+AOC-5M-1	ETHERNET, QSFP, QDR, 40GbE, FIBER, ACTIVE, PULL, 5M	5				
CBL-QSFP+AOC-10M-1	ETHERNET, QSFP, QDR, 40GbE, FIBER, ACTIVE, PULL, 10M	10				
External Copper 12 Gb/s						
SMCI P/N	Descriptions	Length (m)	Connector	Cable type	Media	Date Rate
CBL-SAST-0573	MINI SAS HD, 12G, EXT, 1M, 28AWG	1	miniSAS HD x4	Passive	Copper	12 Gb/s
CBL-SAST-0690-1	MINI SAS HD, 12G, EXT, 2M, 30AWG	2				
CBL-SAST-0677	MINI SAS HD, 12G, EXT, 3M, 28AWG	3				
CBL-SAST-1035-1	MINI SAS HD, x8, 12G, EXT, PASSIVE, PULL, 1M, 30AWG	1	miniSAS HD x8	Passive	Copper	12 Gb/s
CBL-SAST-1036-1	MINI SAS HD, x8, 12G, EXT, PASSIVE, PULL, 2M, 30AWG	2				
CBL-SAST-1037-1	MINI SAS HD, x8, 12G, EXT, PASSIVE, PULL, 3M, 28AWG	3				
Internal Copper 12 Gb/s – Oculink 1.0						
SMCI P/N	Descriptions	Length (cm)	Connector	Cable type	Media	Date Rate
CBL-SAST-0929	OcuLink v 1.0 source to MiniSAS HD, INT, PCIe, 57CM,34AWG	57	Oculink 1.0	Passive	Copper	
CBL-SAST-0972	OcuLink v 1.0 source to MiniSAS HD, INT, PCIe, 70CM,34AWG	70				
CBL-SAST-0847	OcuLink v 1.0, INT, PCIe NVMe SSD, 76CM,34AWG	76				
CBL-SAST-0818	OcuLink v 1.0, INT, PCIe NVMe SSD, 55CM,34AWG	55				
CBL-SAST-0819	OcuLink v 1.0, INT, PCIe NVMe SSD, 65CM,34AWG	65				
CBL-SAST-0974-1	OcuLink v 1.0, INT, PCIe NVMe SSD, 37CM,34AWG	37				
CBL-SAST-0973-1	OcuLink v 1.0, INT, PCIe NVMe SSD, 25CM,34AWG	25				
Internal Copper 6 Gb/s						
SMCI P/N	Descriptions	Length (cm)	Connector	Cable type	Media	Date Rate
CBL-0473L	SATA, INT, ROUND, ST-ST, 21CM, 30AWG	21	7-Pin SATA	Passive	Copper	6 Gb/s
CBL-0483L	SATA, INT, ROUND, ST-ST, 29CM, 30AWG	29				
CBL-0484L	SATA, INT, ROUND, ST-ST, 55CM, 30AWG	55				
CBL-0481L	SATA, INT, ROUND, ST-ST, 81CM, 30AWG	81				
CBL-0109L-02	MINI SAS, INT, 22CM, 26AWG	22	miniSAS	Passive	Copper	6 Gb/s
CBL-0421L	MINI SAS, INT, 55CM, 26AWG	55				
CBL-0281L-01	MINI SAS, INT, 75CM, 30AWG	75				
Internal Copper 12 Gb/s						
SMCI P/N	Descriptions	Length (cm)	Connector	Cable type	Media	Date Rate
CBL-SAST-0550	MINI SAS HD, INT, 25CM, 30AWG	25	miniSAS HD	Passive	Copper	12 Gb/s
CBL-SAST-0532	MINI SAS HD, INT, 50CM, 30AWG	50				
CBL-SAST-0531	MINI SAS HD, INT, 80CM, 30AWG	80				
CBL-SAST-0623	MINI SAS HD, INT, 45CM, 85 OHM, 30AWG	45	miniSAS HD	Passive	Copper	12 Gb/s
CBL-SAST-0590	MINI SAS HD, INT, 70CM, 30, 85 OHM, AWG	70				
CBI-SAST-0957	Mini SAS HD to PCIe SFF-8639 w/ Power, 55CM, 45CM 34 AWG	55	miniSAS HD to SFF-8639	Passive	Copper	12 Gb/s
CBL-SAST-0956	OcuLink v1.0 to PCIe SFF-8639 w/ Power, 55CM, 34 AWG	55	Oculink to SFF-8639	Passive	Copper	12 Gb/s
CBL-SAST-1011	OcuLink v1.0 to PCIe SFF-8639 w/ Power, 75CM, 34 AWG	75				





Rear View



Model	SSE-G2252P (52 ports; 48 with Power-over-Ethernet)	SSE-G2252 (52 ports)
General Specifications:	<ul style="list-style-type: none"> <li>48 RJ45 10/100/1000 Mbps Ports</li> <li>4 SFP 1-G Ports</li> <li>Non-Blocking</li> <li>Standard L2 Features</li> <li>IPv4 and IPv6</li> <li>RJ45 Console Port: Web Management, CLI</li> <li>Power-over-Ethernet (IEEE802.3at)                             <ul style="list-style-type: none"> <li>Up to 30W per port</li> <li>Up to 400W total PoE budget</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>48 RJ45 10/100/1000 Mbps Ports</li> <li>4 SFP 1-G Ports</li> <li>Non-Blocking</li> <li>Standard L2 Features</li> <li>IPv4 and IPv6</li> <li>RJ45 Console Port: Web Management GUI, CLI</li> </ul>
Switching Capacity	• 104 Gbps	• 104 Gbps
Energy Efficient Ethernet	• 802.3az	• 802.3az
Power Supply	• 500W	• 65W
Weight	• 11.7 lbs / 5.3kg	• 6.8 lbs / 3.1kg
Dimensions (WxDxH)	• 440 x 379 x 43mm (17.3" x 14.9" x 1.7")	• 440 x 279 x 43mm (17.3" x 11" x 1.7")
Switching Features	<ul style="list-style-type: none"> <li>16K MAC address entries</li> <li>Link Aggregation                             <ul style="list-style-type: none"> <li>802.3ad with LACP</li> <li>Up to 12 aggregation groups up to 8 ports per group</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Double tagging:                             <ul style="list-style-type: none"> <li>802.1 Q-in-Q</li> <li>802.1ad provider bridge</li> <li>Unqualified learning</li> </ul> </li> </ul>

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# LAYER 2/3 ETHERNET SWITCHES

Enterprise-class performance with advanced switching capabilities in a 1U form factor.  
 Highly cost-effective 1/10-Gigabit Ethernet Networking – Standalone or Top-of-Rack.

			<ul style="list-style-type: none"> <li>• M</li> <li>• V</li> </ul>
	<ul style="list-style-type: none"> <li>• M</li> <li>• M</li> </ul>	<ul style="list-style-type: none"> <li>• 8 pr i o r i t y queues per po r t</li> <li>• A</li> <li>• Layer 2, 3, 4 Pr i o r i t i z a t i o n</li> </ul>	<ul style="list-style-type: none"> <li>• M</li> <li>• M</li> </ul>
			<ul style="list-style-type: none"> <li>• P I M S M , P I M D M</li> <li>• P I M S M v6</li> </ul>
			<ul style="list-style-type: none"> <li>• M u l t i p l e l e v e l s o f u s e r p r i v i l e g e</li> <li>• ( C L I a n d W e b V I</li> <li>• 2) 10 G b e t</li> <li>• F o u r R M O N G r o 1, 2, 3 a ( n d 9)</li> <li>• L</li> <li>• D u a l f i r m w a r e i m a g e s</li> <li>• C o n f i g u r a t i o n f i l e - u p l o a d / d</li> </ul>

**Options** (order at least one, maximum two with each SSE-G24-TG4 or SSE-G48-TG4)

A

wo T -p ort S F P+ connector mo dule



# LAYER 2/3 ETHERNET SWITCHES

Convenient, Cost-effective way to ease the transition from 10G to 25G Ethernet

**New!**  
**Non-blocking connectivity**  
**1U form factor for flexible installation**

**New!**  
**Non-blocking connectivity**  
**1U form factor for flexible installation**

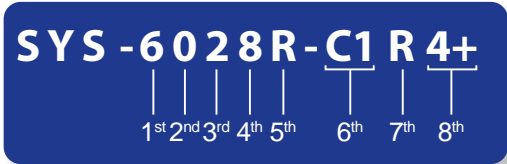
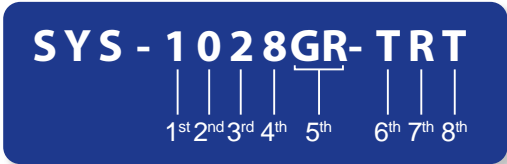


Rear View

Model	SSE-F3548SR (54 Ports)	SSE-F3548S (54 Ports)
Port Attributes	<ul style="list-style-type: none"> <li>• 48 Twenty-Five Gigabit Ethernet Ports - SFP28 Connectors</li> <li>• 6 100G Ethernet Ports - QSFP28 Connectors</li> <li>• 1 One-Gigabit Ethernet ports - RJ45 Connector</li> <li>• 1 RJ45 Console port</li> <li>• 1 USB port</li> <li>• Reverse Airflow</li> </ul>	<ul style="list-style-type: none"> <li>• 48 Twenty-Five Gigabit Ethernet Ports - SFP28 Connectors</li> <li>• 6 100G Ethernet Ports - QSFP28 Connectors</li> <li>• 1 One-Gigabit Ethernet ports - RJ45 Connector</li> <li>• 1 RJ45 Console port</li> <li>• 1 USB port</li> </ul>
Switching Capacity	<ul style="list-style-type: none"> <li>• 3.6Tb</li> </ul>	
Power Consumption	<ul style="list-style-type: none"> <li>• &lt;400W (Redundant Power Supplies)</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>• 18.1 lbs / 8.2 kg</li> </ul>	
Dimensions (WxDxH)	<ul style="list-style-type: none"> <li>• 445 x 515 x 43.5mm (17.5" x 20.2" x 1.7")</li> </ul>	
Availability	<ul style="list-style-type: none"> <li>• Multiple Spanning Tree (802.1D)</li> </ul>	
VLAN	<ul style="list-style-type: none"> <li>• 4K Static VLANs</li> <li>• 802.1Q tagging, port and protocol based</li> </ul>	
Quality of Service and DiffServ	<ul style="list-style-type: none"> <li>• 8 priority queues per port</li> <li>• Metering / Rate limiting</li> <li>• COS</li> <li>• QoS (with DiffServ)</li> <li>• Storm Control</li> <li>• Flow Control</li> <li>• Marking</li> </ul>	
Switching Features	<ul style="list-style-type: none"> <li>• 64K MAC address entries</li> <li>• Jumbo frames up to 9KB</li> <li>• Spanning tree</li> <li>• Link Aggregation</li> <li>• LACP Support</li> </ul>	<ul style="list-style-type: none"> <li>• MLAG</li> <li>• Storm protection</li> <li>• Loop Protection</li> <li>• Port Mirroring - N to 1. Tx &amp; RX</li> </ul>
Routing Features	<ul style="list-style-type: none"> <li>• Future Release</li> </ul>	
Multicast	<ul style="list-style-type: none"> <li>• IGMP Snooping v1, v2, v3</li> </ul>	
Security Features	<ul style="list-style-type: none"> <li>• RADIUS and TACACS+ Authentication</li> <li>• SSH/SSL Encryption</li> <li>• Switch acces password protection</li> <li>• ACL</li> </ul>	
Management Features	<ul style="list-style-type: none"> <li>• Multiple levels of user privilege (CLI and Web UI)</li> <li>• DHCP Client</li> <li>• Logging - syslog</li> <li>• Configuration file - upload / download</li> <li>• Multiple configuration file upload/download by TFTP and HTTP</li> <li>• NTP</li> </ul>	<ul style="list-style-type: none"> <li>• Software upgrade/download</li> <li>• SNMP v1, v2, v3</li> <li>• Uplink Failure Detection</li> <li>• Web-based management interface HTTP/HTTPS</li> <li>• OpenConf</li> <li>• RESTCONF</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 0°C ~ 45°C (32°F - 113°F)</li> </ul>	



# PRODUCT NAMING GUIDE



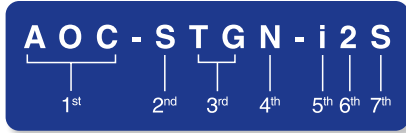
## Servers with 2.5" Hard Drives

Character	Representation	Options
1st	Form Factor	1 = 1U 2 = 2U 3 = 3U 4 = 4U 5 = 5U
2nd	Reserved Digit	
3rd	Number of processor slots	1 = Single processor slot 2 = Dual processor slots 4 = Quad processor slots 8 = Oct processor slots (8 way server)
4th	System Generation	5 = X7 Series 6 = X8 Series 7 = X9 Series 8 = X10 Series 9 = X11 Series
5th	Chipset	A = Atom B = Boxboro (X8) B = Brickland (X10) C = Clarksboro (X7) B = Bigby/Skt B2 C = Cougar Point (X9) G = GPU I = Foxhollow (X7) M = Mukilteo R = Romley / Socket R (X9 / X10) ST = Storage Server T = Tylersburg (X7) xT = x: platform (ex: T-Twin, G-GPU) U = Ultra
6th	HDD Interface	3 = SAS (Intel)      D = Short-Depth 6 = SAS2 (Intel)    E = Extension Slot with Riser 70 = SAS2 (Broadcomfi 2008)    H = Hot Swap, Six GPUs 71 = SAS2 (Broadcomfi 2108)    L = Low Cost 72 = SAS2 (Broadcomfi 2208)    M = Mini-Chassis 73 = SAS2 (Broadcomfi 2308)    P = Internal slot 73J = SAS2 (Broadcomfi 2308 IT mode)    NT = SATA without UIO C0 = SAS3 (Broadcomfi 3008)    T = SATA 12Gb                                    U = UIO C1 = SAS3 (Broadcomfi 3108)    W = WIO 12Gb                                    N = NVMe A = Workstation
7th	Power Redundancy	R = Redundant power supply E = Expansion Slot
8th	Additional	+ = 18(X8)/24(X9)/32(X9 Quad) DIMM memory F = On board BMC (IPMI) T = 10 Gigabit Ethernet 2 = 2nd Generation GPU 4 = 4 Independent LAN ports

## Servers with 3.5" Hard Drives

Character	Representation	Options
1st	Number of processor slots	5 = Single processor slot 6 = Dual processor slots 7 = Dual processor slots (Tower) 8 = Quad processor slots (4 way Server)
2nd	Reserved Digit	
3rd	Form Factor	1 = 1U 2 = 2U 3 = 3U 4 = 4U
4th	System Generation	5 = X7 Series 6 = X8 Series 7 = X9 Series 8 = X10 Series 9 = X11 Series
5th	Chipset	A = Atom B = Boxboro (X8) B = Bigby/Skt B2 (X9) B = Brickland (X10) C = Clarksboro (X7) C = Cougar Point (X9) G = GPU I = Foxhollow (X7) M = Mukilteo P = Pxx PR = X9 Twin Pro R = Romley/Socket R (X9/X10) S = Skylake ST = Storage Server T = Tylersburg TP = X10 Twin Pro TR = Twin R Socket xT = x: platform (ex: T-Twin, G-GPU); T: Tylersburg U = Ultra UT = EXDP Twin Pro UX = Hyperspeed
6th	HDD Interface	3 = Intel® SAS                                    H = Hot Swap 6 = Intel® SAS2                                  L = Low Cost 70 = SAS2 (Broadcomfi 2008)                M = Mini-Chassis 71 = SAS2 (Broadcomfi 2108)                P = Internal slot 72 = SAS2 (Broadcomfi 2208)                NT = SATA without UIO 73 = SAS2 (Broadcomfi 2308)                T = SATA 73J = SAS2 (Broadcomfi 2308 IT mode)    U = UIO C0 = SAS3 (Broadcomfi 3008)                W = WIO 12Gbps    N = NVMe C1 = SAS3 (Broadcomfi 3108)                X = 11 Slots, Max IO 12Gbps A = Workstation D = Desktop, Short-Depth E = Extension Slot with Riser
7th	Power Redundancy	R = Redundant Power Supply E = Expansion Slot
8th	Additional	+ = 18(X8)/24(X9)/32(X9 Quad) DIMM memory slots F = On board BMC (IPMI, no longer used with X10) P = 10G SFP+ T = 10 Gigabit Ethernet 4 = 4 Independent LAN ports

# PRODUCT NAMING GUIDE



Network Adapter

Character	Representation	Options	
1st	Product Family	AOC = Add On Card	
2nd	Form Factor	U = UIO S = Standard P = Proprietary C = MicroLP	M = Supermicro IO Module (SIOM) MH = SIOM Hybrid
3rd	Product Type/Speed	G = GbE (1Gbps) TG = 10GbE (10Gbps) IBF = IB FDR (56Gbps) IBQ = IB QDR (40Gbps) INF = IB DDR (20Gbps)	25G = 25GbE (25Gbps) 40G = 40GbE (40Gbps) 100G = 100GbE (100Gbps) HFI = Host Fabric Interface (100Gbps)
4th	Chipset Model (optional)	N = Niantec (82599) F = Fortville (XL710/X710)	P = Powerville (i350) S = Sageville (X550)
5th	Chipset Manufacturer (optional)	i = Intel m = Mellanox	b = Broadcom
6th	Number of Ports	1 = 1 port 2 = 2 ports	4 = 4 ports
7th	Connector Type (optional)	S = SFP+/SFP28 Q = QSFP+	T = 10GBase-T C = QSFP28



SIOM Network Adapter

Character	Representation	Options	
1st	Product Family	AOC = Add On Card	
2nd	Form Factor	S = Standard P = Proprietary C = MicroLP	M = Super IO Module (SIOM) MH = SIOM Hybrid
3rd	Product Type/Speed	G = GbE (1Gbps) TG = 10GbE (10Gbps) 25G = 25GbE (25Gbps) 40G = 40GbE (40Gbps) 50G = 50GbE (50Gbps) 100G = 100GbE (100Gbps)	IBE = IB EDR (100Gbps) IBF = IB FDR (56Gbps) IBQ = IB QDR (40Gbps) HFI = Host Fabric Interface
4th	Chipset Model (optional)	N = Niantec (82599) F = Fortville (XL710/X710)	P = Powerville (i350) S = Sageville (X550)
5th	Chipset Manufacturer	i = Intel m = Mellanox	b = Broadcom
6th	Number of Ports	1 = 1 port 2 = 2 ports	4 = 4 ports
7th	Connector Type (optional)	S = SFP+/SFP28 Q = QSFP+	T = 10GBase-T C = QSFP28
8th	2nd Controller/Connector Type (optional)	G = GbE RJ45 S = 10G SFP+ 2G = GbE 2x RJ45	T = 10GBase-T 2T = 2x 10GBase-T



NVMe Add On Card

Character	Representation	Options	
1st	Product Family	AOC = Add On Card	
2nd	Expansion slot interface	S = Standard PCI	
3rd	Card height	L = Low Profile M = Smaller Profile	
4th	Expansion slot interface version	G3 = PCI-E Gen3	
5th	Ports	12 = 12 ports 8 = 8 ports 4 = 4 ports 2 = 2 ports	
6th	Protocol	E = NVMe H = Hybrid	
7th	Total # of PCI-E lanes per port (dedicated or distributed) or PCI-E expansion slot length	2 = 2 lanes per port 4 = 4 lanes per port 8 = x8 slot F = x16 slot	
8th	AOC type	R = MiniSAS HD Re-driver T = OCuLink Re-timer P = OCuLink PLX switch (no "P" means MiniSAS HD PLX) M2 = M.2 Carrier	
9th	Additional	F = Unique form factor	



Ultra Networking Riser Card

Character	Representation	Options	
1st	Product Family	AOC: Add On Card	
2nd	Form Factor	UR: Ultra Riser for 1U 2UR: Ultra Riser for 2U	
3rd	PCI-E Expansion Slots	8: PCI-E x8 6: PCI-E x16	
4th	NVMe Ports (Optional)	N2: Two NVMe ports N4: Four NVMe ports N6: Six NVMe ports	
5th	LAN Chipset Manufacturer	i: Intel	
6th	Number of Ports	1: One port 2: Two ports 4: Four ports	
7th	Controller Type	G: GbE X: 10GbE T: 25GbE	Q: 40GbE F: 50GbE C: 100GbE
8th	Connector Type (Optional)	S: SFP+ T: 10GBase-T	
9th	Chipset Model (Optional)	F: Fortville (XL710/X710)	

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## Worldwide Headquarters

San Jose, California



### America:

- Supermicro's Headquarters expansion: Over 1.5 million square foot Green Computing Park in San Jose, California signals the company's increasing leadership in the IT industry
- One of the largest high-tech R&D, manufacturing, and business hubs in Silicon Valley
- East Coast Sales and Service Office

### APAC:

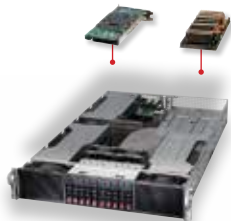
Supermicro's Asia Science and Technology Park is a key milestone in the company's growth as a true global leader in the development of advanced, power saving computing technologies

### EMEA:

Supermicro's system integration facility and services in The Netherlands serves the dynamic, rapidly growing EMEA market with localized supply and time-to-market advantages

## THE SUPERMICRO ADVANTAGE

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- Intel® Xeon® Processor E7, Intel® Xeon® Processor E5, Intel® Xeon® Processor E3, Intel® Xeon® Processor D and Intel® Atom® Processor Based Platforms
- High Capacity Memory
- NVMe, Optane™, and Advanced Storage Technologies
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