

TYAN

Summer Addendum 2004

Designing for
Humankind

Designing for Humankind

TYAN

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FC CE

Power of 4

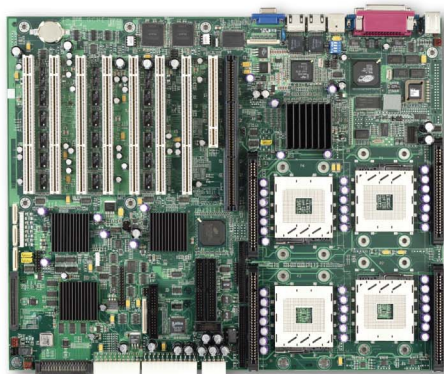
Intel® Xeon™ Platform Series

4-Way



Thunder GC-HE-Pro

S4521



Ideal for on-line transaction processing (OLTP), database server, and other compute-intensive applications.

Processor	Up to four (4) Intel® Xeon™ processors MP
Chipset	ServerWorks® Grand Champion™ HE; 400MHz FSB
Memory	24GB of Registered (ECC) DDR200 dual channel memory by 12 DIMM memory card
Expansion	Five independent PCI/PCI-X buses (6) 100/66MHz 64-bit PCI-X HotPlug slots (1) 100/66MHz 64-bit PCI-(X) slots (1) 66MHz 64-bit PCI-X (no hot-plug, with ZCR) (1) 33MHz 32-bit PCI slots
Storage	IDE Dual Channel ATA-100 Adaptec® AIC-7902W dual-channel U320 SCSI
Network	(2) GbE LAN ports using one Intel® 82546GB network controller
Video	ATI® RAGE™ XL with 8MB
Form Factor	SSI MEB footprint, 13" x 16" (330.2mm x 406.4mm)



TAIWAN
SYMBOL OF EXCELLENCE
2004 WINNER

Power of 4

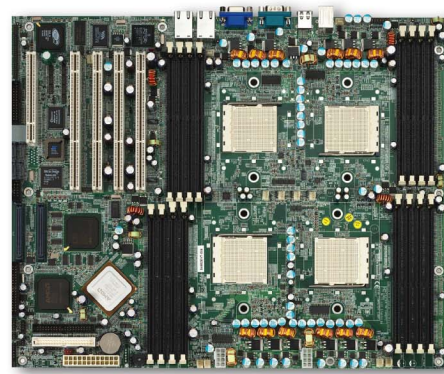
AMD Opteron™ Platform Series

4-Way



Thunder K8QS-Pro

S4882UG2NR



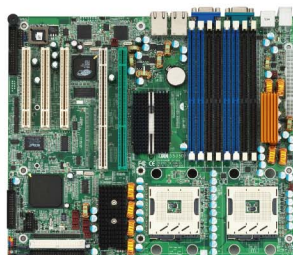
Incredible performance and productivity in computational processing through scalable cutting-edge technology.

Processor	Quad AMD Opteron™ processor MP
Chipset	AMD-8131™ HyperTransport PCI-X Tunnel AMD-8111™ HyperTransport I/O Hub
Memory	Up to 32GB of Registered (ECC) DDR400/333 16 DIMM sockets
Expansion	(2) 66/33MHz 64-bit PCI-X slots (2) 133/100/66/33MHz 64-bit PCI-X slots (1) 33MHz 32-bit PCI slot
Storage	IDE Dual-Channel ATA-133/100/66 LSI 53C1030 Dual-Channel U320 SCSI controller - supports LSI ZCR (4) SATA Silicon Image® SiI3114 controller - supports RAID 0, 1, 10
Network	Broadcom® BCM5704C Dual-Channel GbE controller - Connected to PCI-X Bridge A - (2) RJ-45 LAN connectors with LEDs
Video	ATI® RAGE™ XL with 8MB
Form Factor	SSI MEB footprint, 13" x 16" (330.2mm x 406.4mm)



Best Choice
of
COMPUTEX TAIPEI 2004

Intel® Xeon™ Platform series



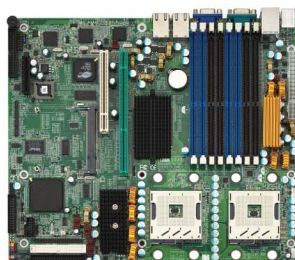
Tiger i7320 S5350G2NR S5350G2NR-1U

Processor	Intel® Xeon™ Processor with 800MHz FSB and EM64T support
Chipset	Intel® E7320 + 6300ESB
Memory	16GB of Registered (ECC) DDR333/266 8 DIMM sockets
Expansion	G2NR SKU - (2) 66MHz 64-bit PCI-X slots - (3) 33MHz 32-bit PCI slots G2NR-1U - (1) 66MHz 64-bit PCI-X slot - (1) proprietary 200-pin SO-DIMM PCI-X 64/66 connector
Storage	(2) IDE Dual Channel ATA-100 (2) Serial ATA ports via Intel® 6300ESB support RAID 0, 1 M7902, SO-DIMM U320 SCSI card (optional module) - Adaptec® AIC-7902W dual-channel U320 SCSI controller - Adaptec® HostRAID supports RAID 0,1,10 M8110/M8120 SO-DIMM SATA card (optional modules) - Supports up to 4 SATA ports (M8110) and 8 SATA ports (M8120) - Adaptec® HostRAID supports RAID 0,1,10
Network	(2) Broadcom® BCM5721 PCI Express GbE controllers
Video	ATI® RAGE™ XL with 8MB
Form Factor	ATX 12" x 10.2" (305mm x 259mm)



Thunder i7520 S5360

Processor	Intel® Xeon™ Processor with 800MHz FSB and EM64T support
Chipset	Intel® E7520 + two 6700PXH + ICH5R
Memory	16GB of Registered (ECC) DDR333/266 8 DIMM sockets
Expansion	Four PCI-X, one x8 PCI-Express, one x4 PCI-Express and one PCI independent buses (2) 266*/133/100/66MHz slots PCI-X v.2.0* (1) x8 PCI Express slot (2) 100/66MHz 64-bit PCI-X slots (1) 66MHz 64-bit PCI-X slot (1) 33MHz 32-bit PCI v2.2 slot (2) IDE Dual Channel ATA-100
Storage	M7902, SO-DIMM U320 SCSI card (optional module) - Adaptec® AIC-7902W dual-channel U320 SCSI controller - Adaptec® HostRAID supports RAID 0,1,10 M8110/M8120 SO-DIMM SATA card (optional modules) - Supports up to 4 SATA ports (M8110) and 8 SATA ports (M8120) - Adaptec® HostRAID supports RAID 0,1,10
Network	(2) GbE LAN ports using one Intel® 82546GB network controller
Video	ATI® RAGE™ XL with 8MB
Form Factor	EATX 12" x 13" (305mm x 330mm)



Tiger i7320 PRO S5351

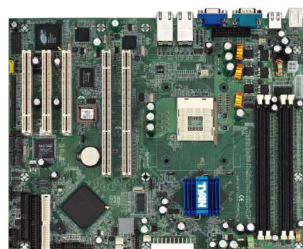
Processor	Intel® Xeon™ Processor with 800MHz FSB and EM64T support
Chipset	Intel® E7320 + 6300ESB
Memory	16GB of Registered (ECC) DDR333/266 8 DIMM sockets
Expansion	(1) 66MHz 64-bit PCI-X slot (1) 33MHz 32-bit PCI slots (1) proprietary 200-pin SO-DIMM PCI-X 64/66 connector (1) x4 PCI-Express slot
Storage	(2) IDE Dual Channel ATA-100 (2) Serial ATA ports via Intel® 6300ESB support RAID 0, 1 M7902, SO-DIMM U320 SCSI card (optional module) - Adaptec® AIC-7902W dual-channel U320 SCSI controller - Adaptec® HostRAID supports RAID 0,1,10 M8110/M8120 SO-DIMM SATA card (optional modules) - Supports up to 4 SATA ports (M8110) and 8 SATA ports (M8120) - Adaptec® HostRAID supports RAID 0,1,10
Network	(1) Broadcom® BCM5721 PCI Express GbE controller (1) Broadcom® BCM5788 PCI GbE controller (1) Intel® 82551QM Fast Ethernet controller
Video	ATI® RAGE™ XL with 8MB
Form Factor	ATX 12" x 10.2" (305mm x 259mm)



Thunder i7520R S5361

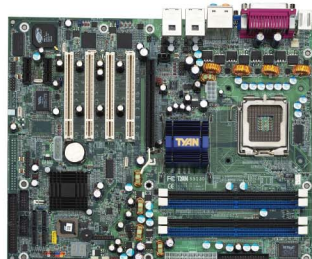
Processor	Intel® Xeon™ Processor with 800MHz FSB and EM64T support
Chipset	Intel® E7320 + 6700PXH + ICH5
Memory	16GB of Registered (ECC) DDR333/266 8 DIMM sockets
Expansion	Total of three usable slots (1) 64-bit 100/66MHz (3.3V) low-profile PCI-X slot supports half-length PCI-X card through riser (1) 64-bit 133/100/66MHz (3.3V) PCI-X slot supports full-length PCI-X card through riser (1) x1 PCI-E slot supports x4 PCI-E card through riser
Storage	(2) IDE Dual Channel ATA-100 Adaptec® AIC-7902W dual-channel U320 SCSI supports ZCR (optional) - Supports Intel RAIDIOS™ and Adaptec ZCR logics - Supports Adaptec HostRAID™
Network	(2) GbE LAN ports using one Intel® 82546GB network controller
Video	ATI® RAGE™ XL with 8MB
Form Factor	EATX 12" x 13" (305mm x 330mm)

Intel® Pentium™ 4 Platform series



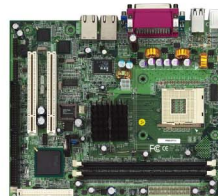
Tomcat
i7210
S5112G2NR

Processor	Intel® Pentium™ 4 "Northwood/Prescott" Socket 478 800/533/400MHz FSB processor
Chipset	Intel® E7210 + 6300ESB; Winbond® W83627HF Super I/O chip
Memory	4GB of Unbuffered (ECC/non-ECC) DDR266/333/400 dual channel memory
Expansion	(2) 66MHz 64-bit PCI-X slots (3) 33MHz 32-bit PCI slots
Storage	IDE Dual Channel ATA-100 Serial ATA controller: -Silicon Image SiI3114 supports SATA RAID 0,1,10 (option) up to four drives - Supports RAID 0, 1 (with Hance Rapids) up to two drives
Network	(1)10/100/1000 Intel® 82547GI CSA GbE controller (1)10/100/1000 Intel® 82541GI PCI GbE controller
Video	ATI® RAGE™ XL with 8MB
Form Factor	ATX 12" x 9.6" (305mm x 244mm)



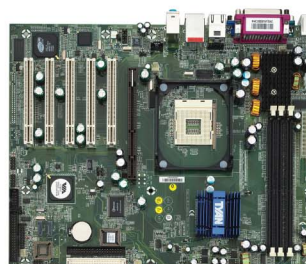
Tomcat
i925X
S5130G2NR

Processor	Intel® Pentium 4 Processor with HT Technology (LGA775 package), 800/533MHz
Chipset	Intel® i925X GMCH + ICH6R® chipset
Memory	4GB of Unbuffered (ECC) DDR2-400/533 4 DIMM sockets
Expansion	(1) x16 PCI Express Graphics slot (2) x1 PCI Express slots (4) 33MHz 32-bit PCI slots
Storage	(1) IDE Channel ATA-100 (4) Serial ATA ports via Intel® ICH6R support RAID 0, 1 SATA Promise® PDC20579 SATA RAID controller (optional) - Two Serial ATA and one ATA-133 channel support RAID 0, 1, 0+1
Network	(2) Broadcom® BCM5721 PCI Express GbE controllers
Video	ATI® RAGE™ XL with 8MB
Form Factor	ATX 12" x 9.6" (305mm x 244mm)



Tomcat
i845GV
S3098G2N

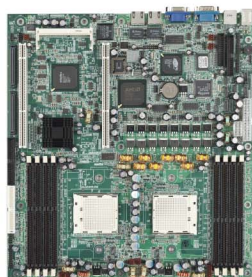
Processor	Intel® Pentium™ 4 "Northwood/Prescott" Socket 478 533/400MHz FSB processor
Chipset	Intel® 845GV chipset
Memory	2GB of unbuffered Non-ECC DDR200/266/333 memory 2 DIMM sockets
Expansion	(2) 33MHz 32-bit PCI slots
Storage	IDE Dual Channel ATA-100
Network	(2) Intel® 82551QM Fast Ethernet controllers
Video	Intel® Extreme Graphics Core Optimized 256-bit BLT engine Up to 2.1GB/s data access in UMA configuration
Form Factor	Flex ATX 9" x 7.5" (228.6cm x 190.5mm)



Tomcat
PT800
S2905AGNNR

Processor	Intel® Pentium™ 4 "Northwood" Socket 478 800/533/400MHz FSB processor
Chipset	VIA PT800 + VIA VT8237
Memory	3 GB of DDR266/333, 2GB of DDR400 3 DIMM sockets
Expansion	(1) 1.5V AGP 8X/4X Pro slot (5) 32bit/33Mhz PCI 2.2 slots
Storage	IDE Dual Channel ATA-133 South Bridge VT8237 integrated two SATA ports w/RAID 0, 1 support
Network	(1) Intel® 82541GI GbE controller (1) VIA® VT6103 Fast Ethernet controller
Video	ATI® RAGE™ XL with 8MB
Audio	6 channel AC'97 codec
Form Factor	ATX 12" x 9.6" (305mm x 244mm)

AMD Opteron™ series



**Thunder
K8SR**

**S2881UG2NR
S2881G2NR**

Processor	Dual AMD Opteron™ 200 Series Processor
Chipset	AMD-8131™ HyperTransport PCI-X Tunnel AMD-8111™ HyperTransport I/O Hub Winbond® 83627HF Super IO
Memory	16GB of Registered (ECC) DDR400/333/266 8 DIMM sockets
Expansion	Two independent PCI-X Buses, (1) slot per bus (1) 133/100/66/33MHz PCI-X slot (Bus B) (1) 100/66/33MHz PCI-X slot (Bus A)
Storage	IDE Dual-Channel ATA-133/100/66 (4) SATA Silicon Image® Sil3114 controller -supports RAID 0, 1, 10 Adaptec® AIC-7902W dual-channel U320 SCSI - SO-DIMM ZCR support (UG2NR version only)
Network	(2) GbE LAN ports using one Broadcom® BCM5704C network controller - connected to PCI-X Bridge A - Front Panel LAN Activity LED headers
Video	ATI® RAGE™ XL with 8MB
Form Factor	E-ATX/SSI 12"x13" (305mm x 407mm) Rackmount optimized

Intel® Xeon™ Platform series

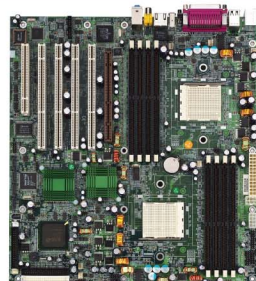


**Thunder
i7525**

S2676

Processor	Intel® Xeon™ Processor with 800MHz FSB and EM64T support
Chipset	Intel® i7525 + 6700PXH + ICH5R®
Memory	16GB of Registered (ECC) DDR2-400 8 DIMM sockets
Expansion	(1) x16 PCI Express Graphics slot (1) 133/100/66MHz 64-bit PCI-X slot (2) 100/66MHz 64-bit PCI-X slots (2) 33MHz 32-bit PCI slots
Storage	(2) IDE Dual Channel ATA-100 (2) Serial ATA ports via Intel® ICH5R support RAID 0, 1 Adaptec® AIC-7902W dual-channel U320 SCSI supports ZCR (optional)
IEEE 1394	(2) IEEE 1394a (FireWire) ports (one internal)
Audio	AC'97 & SPDIF-out support, AD1981B
Network	(1) Broadcom® 5751 PCI Express GbE controller
Form Factor	EATX 12" x 13" (305mm x 330mm)

AMD VALIDATED

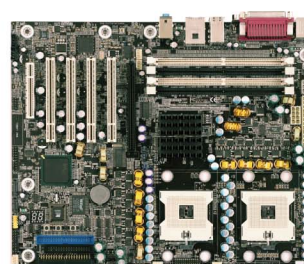


**Thunder
K8W**

S2885ANRF

Processor	(2) AMD Opteron™ 200 Series processor(s)
Chipset	AMD-8131™ HyperTransport PCI-X Tunnel AMD-8111™ HyperTransport I/O Hub AMD-8151™ AGP controller
Memory	16GB of Registered(ECC) DDR266/333/*400 dual channel memory
Expansion	Three independent PCI/PCI-X buses (2) 133/100/66MHz 64-bit PCI-X slots from Bridge B (2) 100/66/33MHz 64-bit PCI-(X) slots from Bridge A (1) 33MHz 32-bit PCI slot (1) AGP/AGP Pro 110W 8x slot
Storage	IDE Dual Channel ATA-66/100/133 (4) SATA Silicon Image® Sil3114 controller -supports RAID 0, 1, 10
Network	(2) GbE LAN ports using one Broadcom® BCM5704C network controller - connected to PCI-X Bridge A
Audio	AC97 audio codec, Digital SPDIF support
Form Factor	EATX/SSI 13" x 12"

* Only Opteron™ 246 or higher supports DDR400

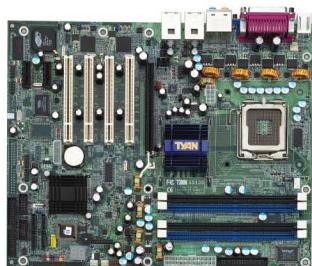


**Tiger
i7525**

S2672

Processor	Intel® Xeon™ Processor with 800MHz FSB and EM64T support
Chipset	Intel® i7525 + ICH5R
Memory	8GB of Registered (ECC) DDR2-400 4 DIMM sockets
Expansion	(1) x16 PCI Express Graphics slot (1) x8 PCI Express slot, with x4 signal (4) 33MHz 32-bit PCI slots
Storage	(2) IDE Dual Channel ATA-100 (2) Serial ATA ports via Intel® ICH5R support RAID 0, 1
Audio	AC'97, AD1981B
Network	(1) Broadcom® 5751 PCI Express GbE controller
Form Factor	ATX 9.8" x 12" (249mm x 305mm)

Intel® Pentium™ 4 Platform series



Tomcat
i925X
S5130ANRF

Processor	Intel® Pentium™ 4 Processor with HT Technology (LGA775 package), 800/533MHz
Chipset	Intel® i925X GMCH + ICH6R® chipset
Memory	4GB of Unbuffered (ECC) DDR2-400/533 4 DIMM sockets
Expansion	(1) x16 PCI Express Graphics slot (2) x1 PCI Express slots (4) 33MHz 32-bit PCI slots
Storage	(1) IDE Channel ATA-100 (4) Serial ATA ports via Intel® ICH6R support RAID 0, 1 SATA Promise® PDC20579 SATA RAID controller (optional) - Two Serial ATA and one ATA-133 channel support RAID 0, 1, 0+1
Audio	AC'97 v2.3, Realtek ALC880, 7.1 channel
Network	(1) Broadcom® BCM5721 PCI Express GbE controller
IEEE 1394	(2) IEEE 1394a (FireWire) ports by VIA VT6307
Form Factor	ATX 12" x 9.6" (305mm x 244mm)



Tomcat
i915
S5120AGNF
S5120AGNNRF

Processor	Intel® Pentium 4 Processor with HT Technology (LGA775 package), 800/533MHz
Chipset	Intel® i915-G GMCH + ICH6®
Memory	4GB of Unbuffered (non-ECC) DDR333/400 4 DIMM sockets
Expansion	(1) x16 PCI Express Graphics slot (2) x1 PCI Express slots (4) 33MHz 32-bit PCI slots
Storage	(1) IDE Channel ATA-100 (4) Serial ATA ports via Intel® ICH6 Promise® PDC20579 SATA RAID controller (AGNNRF version only) - Two Serial ATA and one ATA-133 channel support RAID 0, 1, 0+1
Audio	AC'97 v2.3, Realtek ALC880, 7.1 channel
Network	(1) Broadcom® BCM5751 PCI Express GbE controller (1) Intel® 82551QM Fast Ethernet controller (AGNNRF version only)
IEEE 1394	(2) IEEE 1394a (FireWire) ports by VIA VT6307
Form Factor	ATX 12" x 9.6" (305mm x 244mm)

Barebones series

Transport
GS12
B5103G12S2



Model Number	Transport GS12
Part Number	B5103G12S2
Enclosure Form Factor	sub-1U (15.3" in depth)
Supported CPU	478-pin Intel® P4 'Northwood' and 'Prescott'
Chipset	Intel® 875P / ICH5R
Front Side Bus(MHz)	800/533/400
DIMM number	4
Memory Type	ECC/non-ECC, unbuffered,
(max. capacity)	DDR400/333/266 (4GB)
Storage controller	ICH5R IDE / SATA
RAID support	0, 1
HDD bays	2
Multimedia drive	N/A
Networking	2*Gigabit
PCI slots	1 (32-bit/33MHz)
Power supply	300W, with PFC

Transport
GX21
B2735G21S2



Model Number	Transport GX21
Part Number	B2735G21S2
Enclosure Form Factor	1U (21.5" in depth)
Supported CPU	Up to two 604-pin Xeon™
Chipset	Intel® 7501 / ICH5R
Front Side Bus(MHz)	533/400
DIMM number	6
Memory Type	ECC, registered
(max. capacity)	DDR266/200 (12GB)
Storage controller	ICH5R IDE / SATA
RAID support	0, 1
HDD bays	2, internal access, fixed
Multimedia drive	Slim CD-ROM
Networking	2*Gigabit + 1*10/100base-T
PCI/PCI-X slots	1 (64-bit/133MHz)
Power supply	400W, with PFC
OEM-only SKU	B2735G21S4H, B2735G21U4H: Support 4 SATA/SCSI HDD, hot-swappable

Barebones

series

AMD VALIDATED

Transport GX28 B2881G28S4H



Model Number	Transport GX28
Part Number	B2881G28S4H
Enclosure Form Factor	1U (26" in depth)
Supported CPU	Up to two AMD Opteron™ 200 series
Chipset	AMD-8131™/AMD-8111™
DIMM number	8
Memory Type (max. capacity)	ECC, registered, DDR400/333/266 (16GB)
Storage controller	Silicon Image Si3114 SATA RAID
RAID support	0,1, 10
HDD bays	4, external access,hot-swappable
Multimedia drive	Slim CD-ROM
Networking	2*Gigabit
PCI/PCI-X slots	2 (64-bit, 100/133MHz)
Power supply	400W, with PFC
OEM-only SKU	B2881G28U4H:Support 4 hot-swappable Ultra320 SCSI HDD with ZCR

Transport GX28 B2882G28S2H



Model Number	Transport GX28
Part Number	B2882G28S2H
Enclosure Form Factor	1U (26" in depth)
Supported CPU	Up to two AMD Opteron™ 200 series
Chipset	AMD-8131™/AMD-8111™
DIMM number	8
Memory Type (max. capacity)	ECC, registered DDR400/333/266 (16GB)
Storage controller	Silicon Image Si3114 SATA RAID
RAID support	0,1
HDD bays	2, external access,hot-swappable
Multimedia drive	Slim CD-ROM, 3.5" FDD
Networking	2*Gigabit + 1*10/100base-T
PCI/PCI-X slots	1 (64-bit/133MHz)
Power supply	400W, with PFC

AMD VALIDATED

Transport TA26 B2882T26U8H



Model Number	Transport TA26
Part Number	B2882T26U8H
Enclosure Form Factor	2U (26" in depth)
Supported CPU	Upto to two AMD Opteron™ 200 series
Chipset	AMD-8131™/AMD-8111™
DIMM number	8
Memory Type (max. capacity)	ECC, registered, DDR400/333/266 (16GB)
Storage controller	Adaptec AIC 7902 Ultra 320 SCSI
RAID support	Optional ZCR
HDD bays	8, external access,hot-swappable
Multimedia drive	Slim CD-ROM
Networking	2*Gigabit + 1*10/100base-T
PCI/PCI-X slots	3(64-bit,133/100/66MHz)
Power supply	460W, with PFC

Transport TX46 B4882T46U2H



Model Number	Transport TX46
Part Number	B4882T46U2H
Enclosure Form Factor	2U (27" in depth)
Supported CPU	Upto to four AMD Opteron™ 800 series
Chipset	AMD-8131™/AMD-8111™
DIMM number	16
Memory Type (max. capacity)	ECC, registered, DDR400/333/266 (32GB)
Storage controller	LSI 53C1030 Ultra 320 SCSI
RAID support	Optional ZCR
HDD bays	2, external access, hot-swappable
Multimedia drive	Slim CD-ROM
Networking	2*Gigabit
PCI/PCI-X slots	4 PCI-X (64-bit,133/100/66MHz) + 1 PCI (32-bit/33MHz),low profile cards
Power supply	700W, with PFC