



Hard Drive

Desktop Disk Drives
XV10 Series

Next-generation, entry-level desktop hard drives in capacities of 10.2GB, 15.3GB and 20.4GB.

- Fourth generation Giant Magneto-Resistive (GMR) heads
- Per platter capacity of 10.24GB
- Fast access time of 9.5ms
- Leading areal density of 7.8 Gb/in²
- 37.8 MB/sec media transfer rates
- Cache buffer of 512KB for enhanced performance
- UDMA 66 interface
- Three-year limited warranty, including No Excuses® End User Replacement Program

Mobile

Desktop

Enterprise

The Next Generation of Value and Performance

The Fujitsu XV10 series of desktop hard drives offers unparalleled value with leading areal densities of 7.8 Gb/in² and fast data transfer rates up to 37.8 MB/sec. Designed to meet the needs of low-cost PC and entertainment device customers, these drives offer optimal performance and functionality without compromising quality.

Optimized Functionality

The Fujitsu XV10 family is designed to deliver optimum performance with the entertainment and business applications critical for set-top boxes, home entertainment servers, digital video recording and HDTV. They feature high-speed access to large files such as digital audio or video, movies, animation and Internet caching.

Solid Performance

Available in single-platter 10.2GB 5400RPM drives, and multi-platter 15.3GB and 20.4GB drives, the Fujitsu XV10 series includes all the state-of-the-art features you'd expect from a

vertically integrated manufacturer. They offer an industry-leading desktop areal density of 7.8 Gb/in², fast media transfer rates of up to 37.8 MB/sec, a 512KB buffer and average seek times of 9.5ms. What's more, the XV10 family features a top cover design that reduces sound levels to as low as 3.4 bels, making the drives ideal for home-entertainment or PC applications.

No Excuses[®] End User Program

Fujitsu products are designed to give our end users the highest performance and reliability with the least amount of hassle. To prove this, we include with our three-year limited warranty on the XV10

Desktop series, our No Excuses End User Replacement Program. The No Excuses End User Replacement Program may be the easiest and most comprehensive program in the industry. In the unlikely event of a product defect, we will replace that product within two business days. The No Excuses End User Replacement Program is only available to United States end-users. For complete warranty and program information and restrictions, please call Fujitsu Computer Products of America toll-free at 1-800-626-4686 or visit our web site at <http://www.fcpa.com>.

About Fujitsu Computer Products of America

Fujitsu Computer Products of America is a wholly owned subsidiary of Fujitsu Limited, one of the world's largest computer companies with \$43.3 billion in worldwide revenue in fiscal year 1998. Benefiting from Fujitsu Limited's \$3 billion annual investment in research and development, Fujitsu Computer Products provides innovative solutions for the U.S. marketplace. Current product offerings include high-performance disk drives, tape drives, magneto-optical drives, high-volume scanners, and printers.

XV10 Desktop Series Disk Drive Specifications			
Description	MPF3102AT	MPF3153AT	MPF3204AT
Functional Specifications			
Capacity (formatted)	10.24 GB	15.36 GB	20.48 GB
Disks/heads	1/2	2/3	2/4
Track capacity (formatted)	180,224 to 319,488 Bytes		
Cylinders	18,719		
Sectors/track	352 to 624		
Recording density	376,564 BPI		
Track density	20,800 TPI		
Buffer size	512 KB		
Interface	ATA-5		
Seek time	Track to Track	Read: 1.2 ms (typ) / Write: 1.5 ms (typ)	
	Average	Read: 9.5 ms (typ) / Write: 10.5 ms (typ)	
	Full Track	Read: 18.0 ms (typ) / Write: 19.0 ms (typ)	
Data transfer rate	To/from media	21.5 to 37.8 MB/s	
	To/from host	16.6MB/s (PIO mode 4, DMA mode2), 66.6 MB/s (Ultra DMA-66)	
Start time	8 s (typ)		
Stop time	20 s (typ)		
Rotational speed (RPM)	5,400		
Average latency	5.56 ms		
Physical Specifications			
Power requirements	Voltage	5V±5% / 12V±8%	
	Spin-up	+5V:0.6A, +12V:1.8A	
	Read/write (Typ.)	4.6 W	5.2 W
	Idle (Typ.)	3.0 W	3.5 W
	Sleep	0.9 W	
Dimensions	Height	26.1 mm (1.0 in.)	
	Width	101.6 mm (4.0 in.)	
	Depth	146.0 mm (5.7 in.)	
	Weight	600 g (21.18 oz.)	
Ambient temperature	Operating	5°C to 55°C (41°F to 131°F)	
	Non-operating	-40°C to 60°C (-40°F to 140°F)	
	Gradient	20°C (68°F)/H	
Relative humidity	Operating	8% to 80% (non-condensing)	
	Non-operating	5% to 85% (non-condensing)	
	Max wet bulb	29°C (non-condensing)	
Vibration	Operating	0.5 G (5 to 300 Hz)	
	Non-operating	4.0 G (5 to 400 Hz)	
Shock	Operating	30 G (half-sin pulse, 2 ms duration)	
	Non-operating	250 G (half-sin pulse, 2 ms duration)	
Altitude	Operating	-60 to 3,000 m (-200 to 10,000 ft.) Max	
	Non-operating	-60 to 12,000 m (-200 to 40,000 ft.) Max	
Acoustic noise	Idle/Seek	3.4 bels	3.5 bels
	Reliability Specifications		
MTBF	500,000 hours		
Start/stop cycles	40,000		
Error rates	Unrecoverable	1 per 10 ¹¹ bits read	
	Seek	10 per 10 ⁶ seeks	
Limited warranty	3 years (from date of purchase) / includes No Excuses End User Replacement Program		

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