



# 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/in<sup>2</sup>
- 37.8 MB/sec media transfer rates
- Cache buffer of 512KB for enhanced performance
- UDMA 66 interface
- Three-year limited warranty, including No Excuses<sup>®</sup> 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/in<sup>2</sup> 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/in<sup>2</sup>, 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 Replacement Program

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

XV10 Desktop series, original purchasers may also be eligible to participate in 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 for covered purchasers within two business days. The No Excuses End User Replacement Program is only available to United States end-users who have purchased the product not for resale. For complete information about the limited warranty and the No Excuses End User Replacement Program, call Fujitsu Computer Products of America, Inc. toll-free at 1-800-626-4686 or visit our web site at <http://www.fcpa.com>.

XV10 Desktop Series Disk Drive Specifications			
Description	MPF3102AT	MPF3153AT	MPF3204AT
<b>Functional Specifications</b>			
Capacity (formatted)	10.24 GB	15.36 GB	20.48 GB
Disks/heads	1/2	2/3	2/4
Track capacity (formatted)	188,416 to 344,046 Bytes		
Cylinders	20,020		
Sectors/track	368 to 672		
Recording density	374,916 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		
<b>Physical Specifications</b>			
Power requirements	Voltage	5V±5% / 12V±8%	
	Spin-up	+5V:0.6A, 12V:1.8A	
	Read/write (Typ.)	5.4 W	5.5 W
	Idle (Typ.)	4.1 W	4.2 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
<b>Reliability Specifications</b>			
MTBF	500,000 hours		
Start/stop cycles	40,000		
Error rates	Unrecoverable	1 per 10 <sup>14</sup> bits read	
	Seek	10 per 10 <sup>6</sup> seeks	
Limited warranty	3 years (from date of purchase) / No Excuses End User Replacement Program also available to certain purchasers. Visit online at <a href="http://www.fcpa.com">www.fcpa.com</a> for full details and restrictions		

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