



# Hard Drive

**Desktop 27 XV Series**  
3.5-inch IDE  
5400 RPM  
Disk Drives

**Comprehensive disk drive series in capacities ranging from 6.4 GB to 27.3 GB.**

- Third-generation Giant Magneto-Resistive heads
- High-capacity platters of up to 6.8GB each
- Fast access time of 9.5ms
- 30.4MB/sec. media transfer rates
- Cache buffer of 512KB for efficient performance
- Self-diagnostic utility for enhanced data integrity
- UDMA 66 interface
- New top cover improves sound level for quieter operation
- Three-year limited warranty, including No Excuses® End User Replacement Program

*Mobile*

*Desktop*

*Enterprise*

## **Greater Capacity. Greater Performance.**

The new Fujitsu Desktop 27 XV series hard drives deliver increased storage capacity with unparalleled performance. The Desktop 27 XV series one and two-platter drives are strong on performance and efficient on price. For more intense desktop applications, the Desktop 27 XV series three and four-platter drives deliver up to 27.3 GB of capacity. Enabled with Fujitsu's breakthrough Giant Magneto-Resistive (GMR) head technology, Desktop 27 XV drives provide substantial performance and reliability improvements. What's more, Fujitsu's Desktop 27 XV series offers storage capacities of up to 6.8GB per platter and an areal density of 5.16 Gb/in<sup>2</sup>. This coupled with Fujitsu's innovative Stiction-Free-Slider (SFS) design allows the Desktop 27 XV series to deliver enhanced reliability and one of the highest media transfer rates of any 5400 RPM drive—up to 30.4MB/sec.

## **Best-of-Class Features**

Available in six capacity points ranging from 6.4GB to 27.3GB, the Fujitsu Desktop 27 XV series includes the state-of-the-art features you'd expect from a vertically integrated manufacturer. Offering

support for UDMA 66, the Desktop 27 XV series doubles the interface transfer rate to 66MB/sec. Their new top cover cuts sound levels, resulting in a nearly silent, smoother running drive. Add to that the Fujitsu Desktop 27 XV series' 5400RPM rotational speed, 512KB buffer, and average seek time of 9.5ms, and these drives deliver best-in-class performance that can't be beat.

### Outstanding Reliability

Designed to protect user data and ensure trouble-free operation, Fujitsu's self-diagnostic utility offers users the ability to check key functions of the drive directly from their desktops. Fujitsu's unique, easy to use front-end software is available for each drive in the new desktop family, to provide enhanced data integrity and reliability.

### 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 Desktop 27 XV 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>.

Desktop 27 XV 5400 RPM Series Disk Drive Specifications						
Description	MPE3064AT	MPE3102AT	MPE3136AT	MPE3170AT	MPE3204AT	MPE3273AT
<b>Functional Specifications</b>						
Capacity (formatted)	6.48 GB	10.24 GB	13.66 GB	17.08 GB	20.49 GB	27.32 GB
Disks/heads	1/2	2/3	2/4	3/5	3/6	4/8
Track capacity (formatted)	158,720 to 257,024	146,432 to 257,024 bytes				
Cylinders	15,264	16,348				
Sectors/track	310 to 502	286 to 502				
Recording density	299,066 BPI					
Track density	17,250 TPI					
Buffer size	512 KB					
Interface	ATA-4					
Seek time	Track to track	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	17.2 to 30.4 MB/s				
	To/from host	66.6 MB/s (UDMA mode 4), 33.3 MB/s (UDMA mode 2), 16.7 MB/s (PIO mode 4, DMA mode 2)				
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 : 0.8A, 12V: 1.8A				
	Read/write (Typ.)	5.3 W	5.6 W		6.0 W	6.5 W
	Idle (Typ.)	3.4 W	3.7 W		4.1 W	4.6 W
Dimensions	Sleep	1.0 W				
	Height	26.1 mm (1.0 in.)				
	Width	101.6 mm (4.0 in.)				
	Depth	146.0 mm (5.7 in.)				
	Weight	620 g (21.2 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 80% (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		3.6 bels	
<b>Reliability Specifications</b>						
MTBF	500,000 hours					
Start/stop cycles	40,000					
Error rates	Unrecoverable	1 per 10 <sup>11</sup> bits read				
	Seek	10 per 10 <sup>6</sup> seeks				
Limited warranty	3 years (from date of purchase) / includes No Excuses End User Replacement Program					

### About Fujitsu Computer Products of America

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