



STORAGE



Hard Drive

Desktop 18 Series
3.5-inch IDE
5400 RPM
Disk Drives

High-performance disk drives in capacities ranging from 4.3GB to 17.3GB.

- Breakthrough Giant Magneto-Resistive heads
- Capacity per platter of 4.3GB
- Fast access time of 9.5ms, with a 512KB buffer for improved performance
- Integrated hard disk controller and microprocessor, yielding higher performance and reliability
- Industry leading 500,000 hour Mean-Time-Between-Failure (MTBF)
- Three-year, No Excuses[®] limited warranty
- S.M.A.R.T. detection system providing enhanced reliability

Mobile

Desktop

Enterprise

Greater Capacity, Greater Performance

The new Fujitsu Desktop 18 series provides increased storage capacity at an unprecedented value. Enabled with Fujitsu's breakthrough Giant Magneto-Resistive (GMR) head technology, the Desktop 18 drives lead the industry with 4.3 GB per platter and an areal density of 3.3 Gb/in². With substantial performance gains over Magneto-Resistive (MR) heads, Fujitsu's GMR heads, coupled with Fujitsu's innovative Stiction-Free-Slider (SFS) design, allow the Desktop 18 series to deliver a best-of-class internal transfer rate of 26.1 MB/s and enhanced reliability.

Best-of-Class Performance and Reliability

The Desktop 18 hardware supports UDMA 66*. UDMA 66 doubles the interface transfer rate to 66 MB/sec.

With 5400 RPM rotational speed, a 9.5ms seek time, and a 512KB buffer, the Desktop 18 series delivers outstanding performance. Targeting a wide range of consumer and commercial demand, the Desktop 18 series offers six capacity points, ranging from 4.3 to 17.3 GB.

Highly Integrated Architecture

The Desktop 18 series features Fujitsu's highly integrated electronics. By integrating the Hard Disk Controller and the

Microprocessor, Fujitsu's architecture reduces the command overhead and lowers the component counts to deliver increased performance with improved reliability. Through this architecture, the Desktop 18 series provides 320-bit Error Correction Capability (ECC) with on-the-fly correction capability.

Outstanding Reliability

For greater reliability, the Fujitsu Desktop 18 series incorporates Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T), which gives you advanced warning of drive irregularities that could affect data integrity. Fujitsu's quality sets the standard in the computing industry. And the company's desktop drives deliver outstanding reliability, demonstrated by

their 500,000 hour Mean-Time-Between-Failure (MTBF) rating and three-year No Excuses® limited warranty.

Absolutely No Excuses

Fujitsu products are designed to give our end users the highest performance and reliability with the least amount of hassle. To prove this, we back the Desktop 18 series with our No Excuses three-year limited replacement warranty. No Excuses may be the easiest and most comprehensive limited warranty in the industry. In the unlikely event of a product malfunction with your drive, Fujitsu will replace that product within two business days.

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 \$37.7 billion in worldwide revenue. 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 hard disk drives, tape drives, magneto-optical drives, high volume scanners, and printers.

Desktop 18 5400 RPM Series Disk Drive Specifications						
Description	MPD3043AT	MPD3064AT	MPD3084AT	MPD3108AT	MPD3129AT	MPD3173AT
Functional Specifications						
Storage capacity (formatted)	4.3 GB	6.4 GB	8.4 GB	10.8 GB	12.9 GB	17.3 GB
Disks/heads	1/2	2/3	2/4	3/5	3/6	4/8
Track capacity (formatted)	113,664 to 207,872 bytes					
Cylinders	13,033					
Sectors/track	222 to 406					
Recording density	243,487 BPI					
Track density	13,750 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	14.51 to 26.1 MB/s				
	To/from host	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					
Physical Specifications						
Power requirements	Voltage	5VDC ± 5% / 12VDC ± 8%				
	Spin-up	5V @ 0.8 A / 12V @ 1.9 A				
	Read/write (80 iops)	4.6 W	5.1 W		5.5 W	6 W
	Idle (ready)	3.3 W	3.7 W		4.2 W	4.6 W
	Sleep (Typ.)	1.2 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 (21.2 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 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	10 G (half-sin pulse, 11 ms duration)				
	Non-operating	75 G (half-sin pulse, 11 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	3.7 bels
Reliability Specifications						
MTBF	>500,000 hours					
MTTR	<30 min					
Start/stop cycles	40,000					
Error rates	Unrecoverable	1 per 10 ¹¹ bits read				
	Seek	1 per 10 ⁹ seeks				
Limited warranty	3 years No Excuses (from date of purchase) / 2 business day turn-around time					

* Production drives will be available that support either UDMA 33 or 66. Drives that support UDMA 66 will include the characters "-66" in the model number.

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