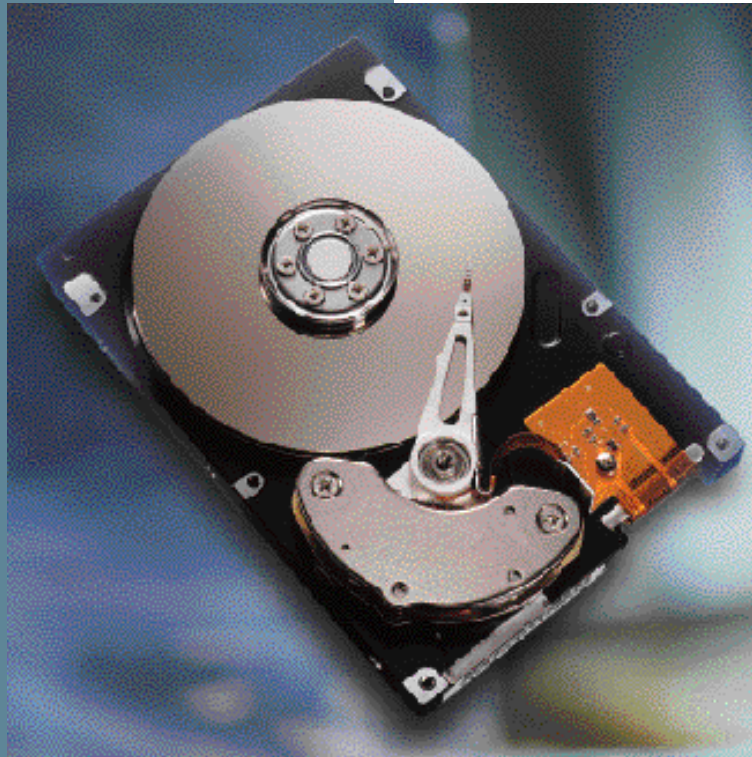




# Hard Drive

**Desktop 6 Series**  
3.5-inch  
Disk Drives



**Five high-performance desktop drives with formatted capacities ranging from 2.1GB-6.4GB**

- Breakthrough 2.1GB per platter capacity
- Ultra DMA compatibility
- Innovative Magneto-Resistive (MR) heads
- Fast seek times under 10 ms
- S.M.A.R.T. detection system
- Three-year No Excuses™ warranty

Fujitsu's Desktop 6 series offers higher capacities, greater reliability, Ultra DMA compatibility, and faster seek times. Fujitsu's technology advances permit 2.16 GB of storage on a single platter. This per-platter capacity allows for models up to 6.48 GB—a level usually reserved for high-end server and workstation drives. The desktop series also includes Magneto-Resistive (MR) head and Partial Response/Maximum Likelihood (PRML) technologies. These drives meet the growing storage demands of graphics, multimedia, and Internet applications.

### **Impressive Performance**

Fujitsu's disk drives include Ultra Direct Memory Access (Ultra DMA) - the new IDE interface standard. UDMA doubles data transfer rates, dramatically reducing the time it takes to open, read, write, and save large files and applications when used with a UDMA compatible controller. These improvements give our desktop drives a distinct performance advantage with blazing seek times of under 10 milliseconds.

STORAGE

Mobile

Desktop

Enterprise

## Increased Reliability

The desktop series drives have added features to increase reliability and data protection. Each drive has a Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) system that provides advanced warning of drive irregularities, giving users time to save files and prevent data loss. And Fujitsu's latest MR Head designs include stiction-free sliders further decreasing the chance of head crashes.

## Absolutely No Excuses™

Fujitsu products are designed to give you the highest performance and reliability with the least amount of hassle. To prove this, we offer our exclusive No Excuses three-year replacement warranty on the desktop disk drives.

No Excuses may be the easiest and most comprehensive warranty service available. In the

unlikely event that something goes wrong, we will replace the drive 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 \$36 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 6 Series Disk Drive Specifications					
Description	MPB3021AT	MPB3032AT	MPB3043AT	MPB3052AT	MPB3064AT
<b>Functional Specifications</b>					
Capacity (formatted)	2.16 GB	3.24 GB	4.32 GB	5.24 GB	6.48 GB
Disks/Heads	1/2	2/3	2/4	3/5	3/6
Track capacity (formatted)	86,016 to 153,600 bytes				
Bytes/sector	512				
Cylinders	8,983				
Sectors/track	168 to 300				
Recording density	161,815 BPI				
Track density	9,531 TPI				
Buffer size	256 KB				
Interface	ATA-3				
Seek time	Track to Track	2.5ms			
	Average	Read: <10 ms typ; Write: 11 ms typ			
	Full Track	Read: 19 ms typ; Write: 20 ms typ			
Data transfer rate	To/from media	9.6 to 16.7 MB/s			
	To/from host	16.7 MB/s max (burst PIO Mode 4 & burst DMA Mode 2) 33.3 MB/s max (Ultra 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	5 V± 5%/12 V± 8%			
	Spin-up	+5V: 0.6 A, +12V: 1.5 A			
	Read/write	4.1 W typ	4.4 W typ		5.0 W typ
	Idle (ready)	3.7 W typ	4.0 W typ		4.5 W typ
	Sleep	0.6 W			
Dimensions	Height	25.4 mm (1.0 in.)			
	Width	101.6 mm (4.0 in.)			
	Depth	146.0 mm (5.7 in.)			
Weight	500 g (17.6 oz)				
Ambient temperature	Operating	5°C to 55°C			
	Non-operating	-40°C to 60°C			
	Gradient	20°C			
Relative humidity	Operating	8% to 80% RH (non-condensing)			
	Non-operating	5% to 85% RH (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.)			
	Non-operating	-60 to 12,000 m (-200 to 40,000 ft.)			
Acoustic noise	Idle/Seek	36dBA	37dBA	38dBA	
<b>Reliability Specifications</b>					
MTBF	500,000 hours				
MTTR	< 30 minutes				
Start/stop cycles	40,000 cycles				
Error rates	Recoverable	— —			
	Unrecoverable	1 per 10 <sup>14</sup> bits read			
	Seek	1 per 10 <sup>9</sup> seeks			
Warranty:	3 years No Excuses (from date of purchase) 2 business day turn-around time				
<b>Technologies</b>					
Encoding/decoding	8/9 PRML				
Head positioning method	Rotary VCM (embedded servo)				



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FUJITSU COMPUTER PRODUCTS OF AMERICA, INC.  
2904 Orchard Parkway,  
San Jose, CA 95134-2009  
(800) 626-4686  
(408) 432-6333  
Web site: <http://www.fcpa.com>  
Email: [info@fcpa.fujitsu.com](mailto:info@fcpa.fujitsu.com)