

Ultra-fast hard disk drives for today's performance-driven systems and applications

3.5-Inch, 15K RPM Enterprise Hard Disk Drives

MBA3073 • MBA3147 • MBA3300

State-of-the-art hard disk drives for demanding enterprise applications.

- ▶ 15K RPM spindle speed and storage capacities up to 300GB¹
- ▶ Maximum internal data-transfer rate of 179MB/sec
- ▶ 3Gb/sec SAS interface. Also offered with 4Gb/sec Fibre Channel and Ultra320 SCSI interfaces
- ▶ 1.4M hours MTBF for high reliability
- ▶ Ideal for high-performance and high-bandwidth applications



¹ One gigabyte (GB) = one billion bytes; accessible capacity will be less and actual capacity depends on the operating environment and formatting.

One megabyte (MB) = 1,000 bytes
One gigabyte (GB) = 1,000 megabytes
Gigabit (Gb) = 1,000 megabits
RPM = Revolutions Per Minute

FUJITSU

THE POSSIBILITIES ARE INFINITE

3.5-Inch, 15K RPM

Enterprise Hard Disk Drives

MBA3073 • MBA3147 • MBA3300

Over 40 years ago, Fujitsu was manufacturing 14-inch hard disk drives for mainframes. Today we're shipping some of the fastest enterprise 3.5-inch hard disk drives in the industry. Leveraging our technology expertise and heritage, we deliver reliable, high-capacity HDDs for your customer's most demanding storage applications.

Fujitsu 3.5-inch 15K RPM enterprise hard disk drives feature a host of innovations. The 300GB, 4-platter configuration provides low power consumption, high reliability, and faster internal data rates. Interface options include 3Gb/sec SAS, 68/80-pin U320 SCSI and 4Gb/sec Fibre Channel.

These qualities make Fujitsu hard disk drives ideal for today's most demanding storage environments. A variety of product offerings with industry leading performance provide systems engineers with greater flexibility when designing rack and tower servers, storage arrays, RAID systems and digital video systems.

About Fujitsu Computer Products of America, Inc.

Fujitsu Computer Products of America, Inc. is a subsidiary of Fujitsu Limited, a leading provider of customer-focused IT and communications solutions for the global marketplace. FCPA provides innovative solutions for the U.S. marketplace. Current product and service offerings include high-performance hard disk drives, scanners and scanner maintenance, palm vein recognition technology, 10Gb Ethernet switches and degaussers.

Fujitsu Computer Products of America, Inc.
<http://us.fujitsu.com/fcpa>

1255 East Arques Avenue Sunnyvale, CA 94085-4701. (800) 626-4686 (408) 746-7000 info@fcpa.fujitsu.com

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3.5-Inch, 15K RPM Enterprise Hard Disk Drive Specifications			
Description	MBA3073RC/NC/NP/FD	MBA3147RC/NC/NP/FD	MBA3300RC/NC/NP/FD
Functional Specifications			
Storage capacity (formatted) ¹	73.5 GB	147.0 GB	300.0 GB
Disks	1	2	4
Heads (read/write)	2	4	8
Bytes/sector	512		
Seek time	Track to track	Read: 0.2 ms (typ.) / Write: 0.4 ms (typ.)	
	Average	Read: 3.4 ms (typ.) / Write: 3.9 ms (typ.)	
	Full track	Read: 8.0 ms (typ.) / Write: 9.0 ms (typ.)	
Average latency time	2.00 ms		
Rotational speed (RPM)	15,000		
Areal density	112.8 Gbits/sq. in.		
Data transfer rate	To/from media	179MB/sec	
	To/from host	SAS: 3Gb/sec, SCSI: 320MB/sec, FCAL: 4Gb/sec	
Recording code	60/62 MEEPRL		
Interface	Dual Port SAS (RC Series), SCA-2 80Pin (NC Series), 68Pin Wide (NP Series), Dual Port FCAL (FC series)		
Head positioning method	Rotary VCM		
Start time	30 s (typ)		
Stop time	30 s (typ)		
Buffer size	SCSI	8 MB	
	SAS, FC	16 MB	
Physical Specifications			
Power requirements	Voltage	5 V ± 5%, 12 V ± 5%	
	Spin-up	12 V ± 5% @ 2.5 A (peak)	
		3.0 A (peak < 100 us)	
		5 V ± 5% @ 0.8 A	
Idle (typ.)	SAS	12.8 W	
	SCSI	12.4 W	
	FC	13.4 W	
Dimensions (HxWxD)	25.4 mm x 101.6 mm x 146.0 mm		
Weight	800 g		
Ambient temperature	Operating	5°C to 55°C (HDD surface 60°C max)	
	Non-operating	-40°C to 70°C	
	Gradient	20°C/Hour (max)	
Relative humidity	Operating	5% to 95% (non-condensing)	
	Non-operating	5% to 95% (non-condensing)	
	Max. wet bulb	29°C (operating)	
		29°C (operating)	
Vibration	Operating	0.6 mm (5 to 20 Hz) / 1.0 G (20 to 300 Hz)	
	Non-operating	3.1 mm (5 to 20 Hz) / 5.0 G (20 to 300 Hz)	
Shock	Operating	65 G max. (2 ms)	
	Non-operating	250 G max. (2 ms)	
Altitude (operation)	Operating	3,048 m (max.)	
	Non-operating	12,192 m (max.)	
Acoustic Noise (idle sound power) (typ.)	<= 3.6 bels (idle)		
Reliability Specifications			
Mean time between failures (MTBF)	1,400,000 hours		
Error rates	Unrecoverable errors	1 per 10 ¹⁵ bits read	
	Seek errors	10 per 10 ⁸ seeks	
Limited Warranty	5 years (from date of purchase)		



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