

15,000 RPM

3.5-Inch Enterprise Hard Disk Drives

TOSHIBA
Leading Innovation >>>

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



MBA3073
MBA3147
MBA3300

Over 40 years ago, Toshiba 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 hard disk drives for your customer's most demanding Enterprise applications.

Toshiba 3.5-inch 15,000 RPM enterprise hard disk drives feature a host of innovations. The 300GB¹, 4-platter configuration provides low power consumption, high reliability, and faster internal data rates. Interface options include 3 Gb/sec SAS, 68/80-pin U320 SCSI and 4 Gb/sec Fibre Channel.

These qualities make Toshiba hard disk drives ideal for today's most demanding Enterprise 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.

- 15,000 RPM spindle speed and storage capacities up to 300GB¹
- Maximum internal data-transfer rate of 179 MB/sec
- 3 Gb/sec SAS interface. Also offered with 4 Gb/sec Fibre Channel and Ultra320 SCSI interfaces
- 1,400,000 hours MTBF for high reliability
- Ideal for high performance and high-bandwidth applications

Hard Drive

15,000 RPM

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Series Overview

	MBA3073 ²	MBA3147 ²	MBA3300 ²
Drive Capacity	73.5GB ¹	147GB ¹	300GB ¹
Drive Interface	Dual Port SAS (RC), SCA-2 80Pin (NC), 68Pin Wide (NP), Dual Port FCAL (FC)		
Number of Platters (disks)	1	2	4
Number of Data Heads	2	4	8
RoHS Compliant	Yes		
Transfer Rate to Host	SAS: 3 Gb/sec, SCSI: 320 MB/sec, FCAL: 4 Gb/sec		

Performance

Track-to-track Seek	0.2ms (Read), 0.4ms (Write)
Average Seek Time	3.4ms (Read), 3.9ms (Write)
Rotational Speed	15,000 RPM
Average Latency	2ms
Buffer Size	SCSI: 8MB, SAS/FC: 16MB ³

Power Requirements

Voltage	5V (+/-5%), 12V (+/-5%)
Spin up (start) Power	12V (+/-5%) @ 2.5A (peak), 3.0A (peak < 100 us), 5V (+/-5%) @ 0.8A
Read/Write Power	SAS: 17.7 watts, SCSI: 18.5 watts, FC watts
Active Idle Power	SAS: 12.8 watts, SCSI: 12.4 watts, FC: 13.4 watts

Physical Size

Dimensions (W) x (D) x (H)	101.6 mm (4") x 146 mm (5.74") x 25.4 mm (1")
Weight	800 g

Environmental

Temp - Operating	5° to 55°C
Temp - Non-Operating	-40° to 70°C
Humidity - Operating	5% to 95% RH
Humidity - Non-Operating	5% to 95% RH
Vibration - Operating	(0.6mm) 5 to 20 Hz / (1.0G) 20 to 300 Hz
Vibration - Non-Operating	(3.1 mm) 5 to 20 Hz / (5.0G) 20 to 300 Hz
Shock - Operating	(65G) 2ms
Shock - Non-Operating	(250G) 1ms
Altitude - Operating	3,048 m
Altitude - Non-Operating	12,192 m

Acoustics

Acoustics (idle)	3.6 bels or less
Acoustics (seek)	4.5 bels

¹One Gigabyte (1 GB) means 10⁹ = 1,000,000,000 bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 2³⁰ = 1,073,741,824 bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

²This drive was developed and originally sold by Fujitsu and still bears the Fujitsu name. As of October 1, 2009 any orders for this product will be sold by Toshiba America Information Systems, Inc. and will use the original Fujitsu Part Number.

³A small portion of buffer memory is used for drive firmware control.

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Subject to Change: While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice.
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