

15,000 RPM

2.5-Inch SAS Enterprise Hard Disk Drives

TOSHIBA
Leading Innovation >>>

State-of-the-art 15,000 SAS hard disk drives for your most demanding enterprise applications



MBC2036RC
MBC2073RC

With more than 40 years of experience in hard disk drive technology, Toshiba continues to deliver state-of-the-art products for your most demanding enterprise applications. Case in point: our top-of-the-line 2.5-inch SAS enterprise hard disk drives.

Enabling point-to-point connections, Toshiba SAS hard disk drives help enterprise system architects develop new solutions and maintain flexibility. These 2.5-inch hard disk drives offer up to 73GB¹ of storage and 15,000 RPM spindle speed - ideal for high end, mission critical applications residing on database servers, storage arrays, and NAS and SAN systems.

Seventy percent smaller than conventional 3.5-inch enterprise drives, a greater number of 2.5-inch SAS drives can be installed in the same space, resulting in improved input-output (I/O) performance. Additionally, lower power consumption per drive and smaller form factor reduces system cooling requirements.

The 3 Gb/sec SAS interface improves system performance while dramatically reducing the cabling footprint, resulting in better system heat dissipation.

- 2.5-inch enterprise hard disk drives offer 15,000 RPM spindle speed and feature storage capacities up to 73GB¹
- More performance per U — up to 24 2.5-inch hard disk drives in a 2U system
- Mean-time-between-failure (MTBF) of 1,400,000 power-on hours
- Lowest power consumption at idle vs. competitive 2.5-inch 15,000 SAS hard disk drives
- Ideal for mission critical server and storage system applications

Hard Drive

15,000 RPM

2.5-Inch SAS SFF Enterprise Hard Disk Drives

TOSHIBA
Leading Innovation >>>

Series Overview

	MBC2036RC ²	MBC2073RC ²
Drive Capacity	36.7GB ¹	73.5GB ¹
Drive Interface	3 Gb/sec SAS	
Number of Platters (disks)	1	2
Number of Data Heads	2	4
RoHS Compliant	Yes	
Transfer Rate to Host	3 Gb/sec	

Performance

Track-to-track Seek	0.2ms (Read), 0.4ms (Write)
Average Seek Time	3.0ms (Read), 3.5ms (Write)
Rotational Speed	15,000 RPM
Average Latency	2ms
Buffer Size	16MB ³

Power Requirements

Voltage	5V (+/-5%), 12V (+/-5%)
Spin up (start) Power	12V (+/-5%) @ 1.2A (peak), 5V (+/-5%) @ 0.7A (peak)
Read/Write Power	9.0 watts
Active Idle Power	5.3 watts

Physical Size

Dimensions (W) x (D) x (H)	69.85 mm (2.75") x 100.45 mm (3.95") x 15 mm (0.59")
Weight	220 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	(0.6 mm) 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	(100G) 1ms
Shock - Non-Operating	(400G) 1ms
Altitude - Operating	3,048 m
Altitude - Non-Operating	12,192 m

Acoustics

Acoustics (idle)	2.9 bels or less (ready)	3.2 bels or less (ready)
Acoustics (seek)	3.9 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.

Visit us at: www.toshibastorage.com

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.
© 2009 Toshiba America Information Systems, Inc. All rights reserved.