

High performance and capacity in a small form factor (SFF) drive

# 2.5-Inch, SAS

## 15K SFF Enterprise Hard Disk Drives

MBC2036RC • MBC2073RC

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

- ▶ 2.5-inch Enterprise Hard Disk Drives offer 15K RPM spindle speed and feature storage capacities up to 73GB<sup>1</sup>
- ▶ More performance per U — up to 24 2.5-inch HDDs 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 15K SAS HDDs
- ▶ Ideal for mission critical server and storage system applications



<sup>1</sup> 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**

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With more than 40 years of experience in hard disk drive technology, Fujitsu 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, Fujitsu SAS hard disk drives help enterprises develop new solutions and maintain flexibility. These 2.5-inch HDDs offer up to 73GB of storage and 15K RPM spindle speed — ideal for high-end, mission-critical applications residing on database servers, storage arrays, and NAS and SAN systems.

70 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 3Gb/sec SAS interface improves system performance while dramatically reducing the cabling footprint, resulting in better system heat dissipation.

**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.

2.5-Inch, SAS 15K RPM Series Hard Disk Drive Specifications

Description		MBC2036RC	MBC2073RC
<b>Functional Specifications</b>			
Storage capacity (formatted) <sup>1</sup>		36.7 GB	73.5 GB
Disks		1	2
Heads (read/write)		2	4
Bytes/sector		512	
Seek time	Track to track	Read: 0.2 ms (typ) / Write: 0.4 ms (typ)	
	Average	Read: 3.0 ms (typ) / Write: 3.5 ms (typ)	
	Full stroke	Read: 7.0 ms (typ) / Write: 8.0 ms (typ)	
Average latency		2.00 ms	
Rotational speed (RPM)		15,000 RPM	
Areal density		120.4 Gbits/sq. in. (max.)	
Data transfer rate		3Gb/sec	
Recording code		60/62 MEEPRML	
Interface		SAS	
Head positioning method		Rotary VCM	
Start time		15 s (typ)	
Stop time		15 s (typ)	
Buffer size		16 MB	
<b>Physical Specifications</b>			
Power requirements	Voltage	5 V ± 5%, 12 V ± 5%	
	Spin-up	12 V ± 5% @ 1.2 A (peak)	
	Idle (typ)	5.3 W	
Dimensions (HxWxD)		15.0 mm x 69.85 mm x 100.45 mm	
Weight		220 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)	
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	100 G max. (1 ms)	
	Non-operating	400 G max. (1 ms)	
Altitude	Operating	3,048 m (max.)	
	Non-operating	12,192 m (max.)	
Acoustic Noise (idle sound power) (typ)		<= 3.2 bels (dle)	
<b>Reliability Specifications</b>			
Mean time between failures (MTBF)		1,400,000 POH	
Error rates	Seek errors	10 per 10 <sup>8</sup> seeks	
	Unrecoverable errors	1 per 10 <sup>15</sup> bits read	
Limited Warranty		5 years (from date of purchase)	



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