

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

2.5-Inch, SAS

10K SFF Enterprise Hard Disk Drives

MBB2073RC • MBB2147RC

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

- ▶ 2.5-inch Enterprise Hard Disk Drives offer 10K RPM spindle speed and feature storage capacities up to 147GB¹
- ▶ 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
- ▶ Best in Class power consumption at idle vs. competitive 2.5-inch 10K SAS HDDs
- ▶ Ideal for mission critical server and storage system 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

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THE POSSIBILITIES ARE INFINITE

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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 147GB of storage and 10K 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 10K RPM Series Hard Disk Drive Specifications

Description		MBB2073RC	MBB2147RC
Functional Specifications			
Storage capacity (formatted) ¹		73.5 GB	147.0 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: 4.0 ms (typ) / Write: 4.5 ms (typ)	
	Full stroke	Read: 8.0 ms (typ) / Write: 9.0 ms (typ)	
Average latency		2.99 ms	
Rotational speed (RPM)		10,025 rpm	
Areal density		124.7 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	
Physical Specifications			
Power requirements	Voltage	5 V ± 5%, 12 V ± 5%	
	Spin-up	12 V ± 5% @ 1.2 A (peak)	
	Idle (typ)	5 V ± 5% @ 0.7 A (peak)	
		4.7 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)		<= 2.9 bels (ready)	
Reliability Specifications			
Mean time between failures (MTBF)		1,400,000 POH	
Error rates	Seek errors	10 per 10 ⁶ seeks	
	Unrecoverable errors	1 per 10 ¹⁵ bits read	
Limited Warranty		5 years (from date of purchase)	



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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