

Quiet and robust for 24/7 industrial and business critical applications

2.5-Inch, Extended Duty 5,400 RPM Mobile Hard Disk Drives MHZ2120BS • MHZ2250BS

Fujitsu introduces its next generation 5,400 RPM Extended Duty Hard Disk Drive with Rotational Vibration (RV) compensation technology.

- ▶ Extended duty hard disk drives offer 24/7 operation and storage capacities up to 250GB¹
- ▶ Featuring Rotational Vibration (RV) compensation technology for reliable operation in multi-drive systems and servers
- ▶ 5,400 RPM spindle speed and SATA interface
- ▶ Best-in-class Idle and Sleep/Standby power consumption means cool and efficient operation in industrial and enterprise environments
- ▶ Ideal for blade servers, telecom equipment, ATMs, POS systems, medical devices, industrial PC/robot and other business critical 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) = 1,000,000 bytes
One gigabyte (GB) = 1,000 megabytes
One gigabit (Gb) = 1,000 megabits
RPM = Revolutions Per Minute

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THE POSSIBILITIES ARE INFINITE

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Utilizing the vast experience and innovative technology developed over 40 years, Fujitsu enriches the 2.5" SATA Hard Disk Drive (HDD) line-up by introducing the new 5,400 RPM 3.0Gb/sec. SATA model offering industry leading 250GB maximum capacity designed for 24/7 operation. Fujitsu began building 24/7 operation 2.5" ATA HDDs in 2003, offering operational features to meet the growing demand of business critical and industrial applications.

The 5,400 RPM MHZ2-BS series drives are well suited for surveillance cameras, industrial PCs, POS/ATMs, robotics, and other industrial applications with non-stop data access. The new series are also designed with features that minimize the adverse effects of rotational vibration, and offers comparable performance to the traditional 3.5" SATA drives while reducing power consumption, making it an ideal and ecological storage solution for companies. The MHZ2-BS series drives are some of the many new products announced under Fujitsu's Green Policy Innovation initiative, unveiled in December 2007 to promote energy-efficient products and services as a way to help customers lower their ecological footprint.

2.5-Inch, 5,400 RPM Series Hard Disk Drive Specifications

Model		MHZ2120BS	MHZ2250BS
Storage capacity (formatted) ¹		120 GB	250 GB
Bytes/sector		512	
Seek time	Track to Track	1.5 msec. typ.	
	Average	12 msec. typ. (Read), 14 msec. typ. (Write)	
	Maximum	22 msec. typ.	
Average latency		5.56 msec.	
Rotational speed		5,400 RPM	
Data transfer to/from host		Max 300 MB/s (SATA 3.0Gb/sec.)	
Interface		SATA 3.0Gb/sec.*	
Buffer size ²		8 MB	
Power requirements	Voltage	5 V ± 5%	
	Spin-up	1.0 A max	
	Read/Write	2.1 W typ.(3.0Gb/sec.) / 1.9 W typ.(1.5Gb/sec.)	
	Idle	0.6 W typ. (w/ Slumber mode)	
	Standby	0.13 W typ. (w/ Slumber mode)	
Dimensions	Height	9.5 mm (0.37 in.)	
	Width	70 mm (2.8 in.)	
	Depth	100 mm (3.9 in.)	
Weight		96 g or less	
Ambient temperature	Operating	5°C to 55°C (41°F to 131°F)	
	Non-operating	-40°C to 65°C (-40°F to 149°F)	
	Gradient	20°C (68°F) / H or less	
Relative humidity	Operating	8% to 90% RH (non-condensing)	
	Non-operating	5% to 95% RH (non-condensing)	
	Max wet bulb	29°C (Op.) / 40°C (Non Op.)	
Vibration	Operating	9.8 m/s ² (1.0 G) (5 to 500 Hz)	
	Non-operating	49 m/s ² (5.0 G) (5 to 500 Hz)	
Shock	Operating	3,185 m/s ² (325 G) 2ms	
	Non-operating	8,820 m/s ² (900 G) 1ms	
Altitude	Operating	-300 to 3,000 m (-1,000 to 10,000 ft.)	
	Non-operating	-300 to 12,000m (-1,000 to 40,000 ft.)	
Acoustic noise		HDD Idle 2.4 bels (typ.)	

² A small portion of buffer memory is used for drive firmware control

* 1.5Gb/sec. Serial ATA (SATA) also available upon request



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.

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