

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

2.5-Inch, Extended Duty 7,200 RPM Mobile Hard Disk Drives

MHZ2080BK • MHZ2120BK • MHZ2160BK • MHZ2250BK

Fujitsu introduces its next generation 7,200 RPM Extended Duty Hard Disk Drive with Rotational Vibration (RV) compensation technology.

- ▶ Extended duty hard disk drives feature 24/7 operation and storage capacities up to 250GB¹
- ▶ Featuring Rotational Vibration (RV) compensation technology for reliable operation in multi-drive systems and servers
- ▶ 7,200 RPM spindle speed and 3.0Gb/sec. SATA interface for outstanding performance
- ▶ Low power consumption for power sensitive environments
- ▶ Ideal for server, blade server, nearline storage and industrial PC/robot 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

FUJITSU

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 7,200 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 7,200 RPM MHZ2-BK series drives are well suited for blade servers, nearline storage devices, telecommunication devices, and other data-intensive business critical applications. 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-BK 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, 7,200 RPM Series Hard Disk Drive Specifications

Model	MHZ2080BK	MHZ2120BK	MHZ2160BK	MHZ2250BK
Storage capacity (formatted) ¹	80.0 GB	120.0 GB	160.0 GB	250.0 GB
Bytes/sector	512			
Seek time	Track to Track		1.5 msec. typ.	
	Average		10.5 msec. typ. (Read), 12.5 msec. typ. (Write)	
	Maximum		20.5 msec. typ.	
Average latency	4.17 msec.			
Rotational speed	7,200 RPM			
Data transfer to/from host	Max 300 MB/s (SATA 3.0Gb/sec.)			
Interface	SATA 3.0Gb/sec. *			
Buffer size ²	16 MB			
Power requirements	Voltage		5 V ± 5%	
	Spin-up		1.1 A typ.	
	Read/Write		2.3 W typ.(3.0Gb/sec.) / 2.1 W typ.(1.5Gb/sec.)	
	Idle ²		0.80 W typ. (w/ Slumber mode)	
	Standby ²		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	115 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 12,000 m (-1,000 to 40,000 ft.)	
Acoustic noise	HDD idle		2.5 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.

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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