

2.5-inch Serial ATA hard disk drives feature 7,200 RPM spindle speed and up to 320GB¹ capacity

2.5-Inch, 7,200 RPM

Mobile Hard Disk Drives

MHZ2080BJ • MHZ2120BJ • MHZ2160BJ
MHZ2250BJ • MHZ2320BJ

Industry leading 7,200 RPM Hard Disk Drive developed using perpendicular recording.

- ▶ 7,200 RPM spindle speed featuring a maximum storage capacity of 320GB
- ▶ 2.5-inch HDD features Serial ATA (SATA) 3.0Gb/sec. interface
- ▶ Best-in-class idle power consumption of 0.8W (typical) and standby/sleep power consumption of 0.13W (typical)
- ▶ Ideal for high-end, mainstream, and gaming notebooks, and slimline desktop PCs



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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Utilizing the vast experience and innovative technology developed over 40 years, Fujitsu enriches the 2.5-inch HDD product line by introducing the new 7,200 RPM 3.0Gb/sec. SATA model offering the world's first 320GB maximum capacity. The new series doubles the capacity with higher data throughput over its predecessor while keeping the low power operation, and is an ideal solution for the growing demand from ambitious users seeking higher performance and storage capacity with a small ecological footprint.

Engineered to deliver high performance and high capacity in a small form factor, these 7,200 RPM mobile HDD deliver a low typical average read/write seek time of 10.5 / 12.5 msec. The low power consumption and best-in-class acoustic noise level, makes these 2.5-inch SATA HDDs an excellent choice for today's ultra-fast, high-capacity notebook computers.

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.

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2.5-Inch, 7,200 RPM Series Hard Disk Drive Specifications

Model	MHZ2080BJ	MHZ2120BJ	MHZ2160BJ	MHZ2250BJ	MHZ2320BJ
Storage capacity (formatted) ¹	80.0 GB	120.0 GB	160.0 GB	250.0 GB	320.0 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 ms				
Rotational speed	7,200 RPM				
Data transfer to/from host	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.			
	Idle ³	0.80 W typ. (w/ Slumber mode)			
	Standby ³	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	116 g (4.09 oz.) 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.)			

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

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

³ SATA PHY in slumber mode



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