

2.5-inch Serial ATA hard disk drives feature 7,200 RPM spindle speed and up to 160GB¹ capacity.

2.5-Inch, 7,200 RPM

Mobile Hard Disk Drives

MHW2080BJ • MHW2120BJ • MHW2160BJ

Fujitsu introduces its first mobile 7,200 RPM hard disk drives developed using perpendicular recording.

- ▶ 7,200 RPM spindle speed delivers high performance mobile computing with low average data seek time
- ▶ Ultra-high capacity mobile hard disk drives (HDD) feature perpendicular magnetic recording (PMR) technology
- ▶ 2.5-inch HDDs feature Serial ATA (SATA) 3 Gb/sec interface and up to 160GB of storage
- ▶ Features exceptionally high quality, reliability and performance
- ▶ Ideal for notebooks requiring high speed and capacity



¹ One gigabyte (GB) = one billion bytes; accessible capacity will be less and actual capacity depends on the operating environment and formatting.

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Fujitsu raises the bar on mobile computing performance with the introduction of its first 7,200RPM, 2.5-inch hard disk drives using PMR technology. High-end notebook manufacturers have been experiencing demand for faster data access and higher disk drive capacities. The new Fujitsu 7,200RPM models satisfy both requirements, allowing manufacturers to offer true high performance mobile computing solutions.

Engineered to deliver high performance and high capacity in a small form factor, the mobile series retains the outstanding level of quality and reliability for which Fujitsu is renowned. These 7,200 RPM mobile HDDs deliver a low typical average read seek time of 10.5ms and a low average latency of 4.17ms. Featuring up to 160GB of storage space, low power consumption and acoustic noise, these 2.5-inch SATA hard disk drives are 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, Magneto-Optical drives, scanners and scanner maintenance, palm vein recognition technology, 10Gb Ethernet switches and degaussers.

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

Model	MHW2080BJ	MHW2120BJ	MHW2160BJ
Storage capacity (formatted) ¹	80.0 GB	120.0 GB	160.0 GB
Bytes/sector	512		
Seek time	Track to Track	1.5 ms typ.	
	Average	10.5 ms typ. (Read), 12.5 ms typ. (Write)	
	Maximum	20.5 ms typ.	
Average latency	4.17 ms		
Rotational speed	7,200 RPM		
Data transfer to/from host	150 MB/sec or 300 MB/sec (3.0 Gb/sec model)		
Interface	SATA 1.5 Gb/sec or SATA 3.0 Gb/sec		
Buffer size	8 MB		
Power requirements	Voltage	5 V ± 5%	
	Spin-up	1.1 A typ.	
	Read/Write	2.1 (1.5 Gb/sec) / 2.3 (3.0 Gb/sec) W typ.	
	Idle ²	0.80 W typ.	
	Standby ²	0.13 W typ.	
	Sleep ²	0.13 W typ.	
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	2,940 m/s ² (300 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	2.5 bels (typ.)	
Limited Warranty	3 years (from date of purchase)		

² SATA PHY in slumber mode.



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