

2.5-inch Serial ATA hard disk drives feature up to 160GB<sup>1</sup> capacity.

# 2.5-Inch, 5,400 RPM

## Mobile Hard Disk Drives

MHW2040BH • MHW2060BH • MHW2080BH • MHW2100BH  
MHW2120BH • MHW2160BH

Fujitsu introduces its first Serial ATA hard disk drives developed using perpendicular recording.

- ▶ Ultra-high capacity mobile hard disk drives (HDD) feature perpendicular magnetic recording (PMR) technology
- ▶ Perpendicular models feature 80GB of storage per platter — among the highest in the industry for a 5,400 RPM HDD
- ▶ 2.5-inch Serial ATA (SATA) hard disk drives feature up to 160GB of storage
- ▶ Features exceptionally high quality, reliability and performance
- ▶ Ideal for notebooks requiring high speed and capacity



<sup>1</sup> 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 reaches another landmark with the introduction of its first 2.5-inch SATA product developed using PMR technology. Since notebook manufacturers are beginning to require 160GB SATA hard disk drives for their products, the new Fujitsu PMR models are entering the market at an optimal time to take advantage of this demand.

Engineered to deliver high capacity in a small form factor, the mobile series still retains the outstanding level of quality and reliability for which Fujitsu is renowned. The 5,400 RPM mobile HDDs achieve up to 80GB per platter (for perpendicular recorded models), among the top in the industry with this spindle speed. Featuring up to 160GB of storage space, low power consumption and reduced acoustic noise, the 2.5-inch SATA hard disk drives are an excellent choice for today's ultra-fast, high-capacity notebook computers.

With the delivery of its first generation, perpendicular recording SATA hard disk drive, Fujitsu continues to demonstrate its strong commitment to technology leadership.

### 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, 5,400 RPM Series Hard Disk Drive Specifications

Model <sup>2</sup>	MHW2040BH	MHW2060BH	MHW2080BH	MHW2100BH	MHW2120BH	MHW2160BH
Storage capacity (formatted) <sup>1</sup>	40.0 GB	60.0 GB	80.0 GB	100.0 GB	120.0 GB	160.0 GB
Bytes/sector	512					
Seek time	Track to Track		1.5 ms typ.			
	Average		12 ms typ. (Read), 14 ms typ. (Write)			
	Maximum		22 ms typ.			
Average latency	5.56 ms					
Rotational speed	5,400 RPM					
Data transfer to/from host	150 MB/sec					
Interface	SATA					
Buffer size	8 MB					
Power requirements	Voltage		5 V ± 5%			
	Spin-up		1.0 A max			
	Read/Write		1.9 W typ.			
	Idle <sup>3</sup>		0.6 W typ.			
	Standby <sup>3</sup>		0.13 W typ.			
	Sleep <sup>3</sup>		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	101 g (3.57 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			
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 <sup>2</sup> (1.0 G) (5 to 500 Hz)			
	Non-operating		49 m/s <sup>2</sup> (5.0 G) (5 to 500 Hz)			
Shock	Operating		2,940 m/s <sup>2</sup> (300 G) 2ms			
	Non-operating		8,820 m/s <sup>2</sup> (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.)			
Limited Warranty	3 years (from date of purchase)					

<sup>2</sup> 40/60/80/100/120GB available in longitudinal recording format. 40/80/160GB available in perpendicular recording format.

<sup>3</sup> SATA PHY in slumber mode.



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