

Space-saving storage solution featuring Serial ATA technology.

2.5-Inch, Serial ATA

5,400 RPM Mobile Hard Disk Drives

MHV2040BH • MHV2060BH • MHV2080BH • MHV2100BH • MHV2120BH

Put Fujitsu 2.5-inch Serial ATA hard disk drives to work for you

- ▶ Serial ATA (SATA) enables the high-speed transfer of data (1.5Gb/s), outstripping older, 16-bit parallel bus technology
- ▶ Features Native Command Queuing (NCQ), which simultaneously coordinates up to 32 instructions to be queued and reordered by the hard-disk controller
- ▶ RoHS-compliant, eliminating certain hazardous materials in the manufacturing of electronic equipment
- ▶ 2.5-inch 9.5mm hard disk drive is quieter, dissipates less heat and uses less power
- ▶ 2.5-inch form factor allows for the design of compact, space efficient storage products, including notebooks and storage towers, as well as non-PC devices



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A leading player in the promotion of SATA technology, Fujitsu was the first hard disk drive manufacturer to introduce a 2.5-inch SATA-based product. Now Fujitsu is releasing its latest generation of SATA hard disk drives, featuring storage capacities of up to 120GB¹.

This efficient hard disk drive provides the best of all worlds. With higher shock tolerance and improved input-output per second (IOPS) rates, both performance and reliability are increased when using multiple hard disk drives. Fluid Dynamic Bearing (FDB) motors help limit acoustic noise, ensuring whisper-quiet operation. And you can rely on the 2.5-inch SATA hard disk drives to meet industry specifications. After all, as an early member of the SATA Working Group, Fujitsu helped define the specifications for SATA.

The 2.5-inch hard disk drives' reduced power consumption and low cost make it equivalent to traditional Parallel ATA hard disk drives, and enable innovation and improvements in everything from laptop and notebook computers to compact RAID systems.

The Fujitsu 2.5-inch SATA hard disk drive is clearly the wave of the future. And the technical savvy of Fujitsu, coupled with its strong customer support programs, can help you make the seamless migration to 2.5-inch hard disk drives and position your business for the future.

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.

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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2.5-Inch, Serial ATA Hard Disk Drive Specifications

Model	MHV2040BH	MHV2060BH	MHV2080BH	MHV2100BH	MHV2120BH
Storage capacity (formatted) ¹	40.0 GB	60.0 GB	80.0 GB	100.0 GB	120.0 GB
Bytes/sector	512				
Seek time	Track to Track	1.5 ms typ.			
	Average	12 ms typ.			
	Maximum	22 ms typ.			
Average latency	5.56 ms				
Rotational speed	5,400 RPM				
Data transfer to/from host	150 MB/s				
Interface	SATA				
Buffer size	8 MB				
Power requirements	Voltage	5 V± 5%			
	Spin-up	1.0 A typ.			
	Operating (Read/Write)	1.9 W typ.			
	Idle ²	0.60 W typ.			
	Standby 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	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 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 ³	28 dBA at 30 cm (typ.), 2.6 bels (typ.)				
Component Life	5 years or 20,000 POH				
Limited Warranty	3 years (from date of purchase)				

² SATA PHY is slumber mode
³ HDD Ready



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