

2.5-inch Serial ATA hard disk drives with capacities up to 500GB¹

2.5-Inch, 5,400 RPM

Mobile Hard Disk Drives

MJA2080BH • MJA2120BH • MJA2160BH • MJA2250BH
MJA2320BH • MJA2400BH • MJA2500BH

Fujitsu introduces its next generation Serial ATA hard disk drive using best-in-class read/write power consumption.

- ▶ High capacity of 500GB in a 9.5mm z-height
- ▶ Part of the Fujitsu Green Policy Innovation program
- ▶ Best-in-class read/write power consumption of 1.4W (SATA 3.0Gb/sec.)
- ▶ Complies with the RoHS directive
- ▶ Supports notebook PCs, desktop PCs, consumer electronics, and other mobile 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

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Utilizing the vast experience and innovative technology developed over 40 years, Fujitsu further enriches the 2.5-inch line-up by introducing a new 5,400 RPM, 3.0Gb/sec. SATA interface, with high storage capacities up to 500GB and a 9.5mm z-height. The 500GB capacity point is 56% larger than the previous generation disk drive, providing the highest capacity available in the smallest footprint.

As part of the Fujitsu Green Policy Innovation program, the MJA2-BH series provides best-in-class read/write power consumption of 1.4W (SATA 3.0Gb/sec.), a reduction of 33% from previous generation models. In addition, the new series complies with the RoHS directive, and is the first Fujitsu hard disk drive to be halogen free*.

With the delivery of this 4th generation 5,400 RPM perpendicular recording SATA hard disk drive, the Fujitsu MJA2-BH series is suited for today's notebook PCs, desktop PCs, consumer electronics, and other mobile applications.

* Halogen free as defined by levels of chlorine (Cl) and bromine (Br) or a compound in which they are combined reduced to be less than the standards of IEC61249-2-21:2003, as stated below:
Chlorine: less than 900ppm, Bromine: less than 900ppm, Chlorine + bromine: less than 1500ppm

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.

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2.5-Inch, 5,400 RPM Series Hard Disk Drive Specifications							
Model	MJA2080BH	MJA2120BH	MJA2160BH	MJA2250BH	MJA2320BH	MJA2400BH	MJA2500BH
Storage Capacity (formatted) ¹	80.0GB	120.0GB	160.0GB	250.0GB	320.0GB	400.0GB	500.0GB
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	300 MB/sec. (SATA 3.0Gb/sec.)						
Interface	SATA 3.0Gb/sec. and 1.5Gb/sec.						
Buffer Size ²	8 MB						
Power Requirements	Voltage		5 V ± 5%				
	Spin-up		1.0 A typ.				
	Read/Write		1.4 W typ. (SATA 3.0Gb/sec.), 1.3W typ. (SATA 1.5Gb/sec.)				
	Idle		0.60 W typ. (w/ Slumber mode)				
	Standby		0.13 W typ. (w/ Slumber mode)				
Dimensions ³	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 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		49m/s ² (5.0 G) (5 to 500 Hz)				
Shock	Operating		3,430 m/s ² (350 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.)				
Acoustics Noise	HDD Idle		2.4 bels (typ.)				

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² Buffer Size: "A small portion of buffer memory is used for drive firmware control"

³ Dimensions: "Excludes PCBA and connector"



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