

5,400 RPM 2.5-Inch Mobile Hard Disk Drives

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The Toshiba MJA2-BH Series is suited for today's notebook PCs, desktop PCs, consumer electronics, and other mobile applications



MJA2160BH
MJA2250BH
MJA2320BH
MJA2400BH
MJA2500BH

Utilizing the vast experience and innovative technology developed over 40 years, Toshiba further enriches the 2.5-inch line-up by introducing a new 5,400 RPM, 3 Gb/sec SATA interface, with high storage capacities up to 500GB¹ and a 9.5mm z-height. The 500GB¹ capacity point is 56% larger than the previous generation disk drive, providing the highest capacity available in the smallest footprint.

As part of Toshiba's environment initiatives, the MJA2-BH Series provides best-in-class read/write power consumption of 1.4 watts (3 Gb/sec SATA), a reduction of 33% from previous generation models. In addition, the new series complies with the RoHS directive, and is the first Toshiba hard disk drive to be halogen free⁴.

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

- High capacity of 500GB¹ in a 9.5 mm z-height
- Part of Toshiba's environmental initiatives
- Best-in-class read/write power consumption of 1.4 watts (3 Gb/sec SATA)
- Complies with the RoHS directive
- Supports notebook PCs, desktop PCs, consumer electronics, and other mobile applications

Hard Drive

5,400 RPM

2.5-Inch Mobile Hard Disk Drives

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Series Overview

	MJA2160BH ²	MJA2250BH ²	MJA2320BH ²	MJA2400BH ²	MJA2500BH ²
Drive Capacity	160GB ¹	250GB ¹	320GB ¹	400GB ¹	500GB ¹
Drive Interface	Serial ATA				
Number of Platters (disks)	1	1	2	2	2
Number of Data Heads	2	2	3	4	4
RoHS Compliant	Yes				
Transfer Rate to Host	1.5 Gb/sec or 3 Gb/sec				

Performance

Track-to-track Seek	1.5ms				
Average Seek Time	12ms (Read), 14ms (Write)				
Rotational Speed	5,400 RPM				
Average Latency	5.56ms				
Buffer Size	8MB ³				

Power Requirements

Voltage	5V (+/-5%)				
Spin up (start) Power	1.0 amps				
Read/Write Power	1.4 watts (3 Gb/sec), 1.3 watts (1.5 Gb/sec)				
Active Idle Power	0.6 watts (w/slumber mode)				
Standby Power	0.13 watts (w/slumber mode)				

Physical Size

Dimensions (W) x (D) x (H)	70 mm (2.8") x 100 mm (3.9") x 9.5 mm (0.37")				
Weight	101 g (3.57 oz.)				

Environmental

Temp - Operating	5° to 55°C (41° to 131°F)				
Temp - Non-Operating	-40° to 65°C (-40° to 149°F)				
Humidity - Operating	8% to 90% RH				
Humidity - Non-Operating	5% to 95% RH				
Vibration - Operating	9.8 m/s ² (1.0G) 5 to 500 Hz				
Vibration - Non-Operating	49 m/s ² (5.0G) 5 to 500 Hz				
Shock - Operating	3,430 m/s ² (350G) 2ms				
Shock - Non-Operating	8,820 m/s ² (900G) 1ms				
Altitude - Operating	-300 to 3,000 m (-1,000 to 10,000 ft.)				
Altitude - Non-Operating	-300 to 12,000 m (-1,000 to 40,000 ft.)				

Acoustics

Acoustics (idle)	2.4 bels				
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Limited Warranty

Limited Warranty	3 years (from date of purchase)				
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¹One Gigabyte (1 GB) means 10⁹ = 1,000,000,000 bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 2³⁰ = 1,073,741,824 bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

²This drive was developed and originally sold by Fujitsu and still bears the Fujitsu name. As of October 1, 2009 any orders for this product will be sold by Toshiba America Information Systems, Inc. and will use the original Fujitsu Part Number.

³A small portion of buffer memory is used for drive firmware control.

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⁴Halogen 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

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