

PC and Notebook Storage

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MQ01ABD Series Hard Disk Drive

250 / 320 / 500 / 750 / 1,000GB*
2.5-Inch / 5,400 RPM / SATA

Using 500GB-per-platter technology, the MQ01ABD series is a 2.5-inch, 5,400 RPM hard disk drive line featuring up to 1TB of capacity for mainstream applications requiring power-efficiency and reliability from their storage solution.

- Up to 1,000GB* of Storage Capacity
- 5,400 RPM Rotational Speed
- Advanced Format 512e
- Eco-conscious Design
- MTTF of 600,000 Hours



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Leading Innovation >>>



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	MQ01ABD025	MQ01ABD032	MQ01ABD050	MQ01ABD075	MQ01ABD100
Series Overview					
Drive Capacity	250GB*	320GB*	500GB*	750GB*	1,000GB*
Drive Interface	Serial ATA, Revision 2.6 (ATA-8)				
Number of Platters (disks)	1	1	1	2	2
Number of Data Heads	2	2	2	4	4
RoHS Compliant	Yes				
Sector Size	AF 512e*				
Transfer Rate to Host	3 Gb/sec				
Performance					
Track-to-track Seek	2 ms				
Average Seek Time	12 ms				
Rotational Speed	5,400 RPM				
Average Latency	5.55ms				
Buffer Size	8MB				
Power Requirements					
Voltage	5V (+/- 5%)				
Spin up (start) Power	4.5 watts				
Seek Power	1.85 watts				
Read/Write Power	1.5 watts				
Low Power Idle	0.55 watts				
Standby Power	0.18 watts				
Sleep Power	0.15 watts				
Physical Size					
Dimensions (W) x (D) x (H)	69.85 mm (2.75") x 100.0 mm (3.94") x 9.5 mm (0.37")				
Weight	102 g (3.60 oz)	102 g (3.60 oz)	102 g (3.60 oz)	112 g (3.95 oz)	112 g (3.95 oz)
Environmental					
Temp - Operating	5° to 55°C (41° to 131°F)				
Temp - Non-Operating	-40° to 65°C (-40° to 140°F)				
Vibration - Operating	9.8 m/s ² (1.0G) 5 to 500 Hz				
Vibration - Non-Operating	49 m/s ² (5.0G) 15 to 500Hz				
Shock - Operating	3,920 m/s ² (400G) 2ms				
Shock - Non-Operating	8,820 m/s ² (900G) 1ms				
Acoustics					
Acoustics (idle)	17 dB	17 dB	17 dB	23 dB	23 dB
Acoustics (seek)	19 dB	19 dB	19 dB	24 dB	24 dB
Warranty					
Limited Warranty	3 years (from date of purchase)				

*One Terabyte (1TB) = 1,000 Gigabytes (GB). One Gigabyte (1GB) 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 1GB = 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.

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