5,400 RPM

MQ01ABF / MQ01ABU

Series Hard Disk Drive

TOSHIBA
Leading Innovation >>>

High Capacity in a Thin, Lightweight Design



MQ01ABF050 MQ01ABF032 MQ01ABU032W MQ01ABU050W

The Toshiba MQ01ABF/ MQ01ABU condenses highcapacity storage in a thin and lightweight hard disk drive series that holds from 320GB to 500GB of digitized data in a 7-millimeter high package. At 92 grams, the MQ01ABF/ MQ01ABU is over 34% lighter than the leading cellular phone with a 24.7% slimmer profile.

In addition to its sleek dimensions the 5400 RPM MQ01ABF/ MQ01ABU drives also feature fast performance to speed data across a SATA 6Gbit-per-second interface while operating at whisper-quiet acoustics.

Designed for the rigors of mobility, the MQ01ABF/MQ01ABU offers the same durability against shock and vibration as its 9.5-millimeter high MQ01ABD, 320GB to 1TB, series counterpart, making it ideal for slim-line laptop computers as well as space-constrained digital video recorders, all-in-one desktop PCs, printers and other computing applications.

- \blacksquare Sleek, 7-millimeter High Profile
- Up to 500GB of Storage Capacity
- 5400 RPM Rotational Speed
- Tough Against Shock and Vibration
- Security Models Available

Hard

Drive

5,400 RPM

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Standard Security AE256, TCG-OPAL SSC, SANITIZE Cryptographic Erase Toshiba wipe technology	MQ01ABF050 MQ01ABU050W	MQ01ABF032 MQ01ABU032W
Basic Specification		
Drive Capacity	500GB*	320GB*
Drive Interface	Serial ATA 3.0 / ATA-8	
Number of Platters (Disks)	1	
Number of Data Heads	2	
RoHS Compliant	Yes 6 Gb/sec	
Transfer Rate to Host Number of User Data Cylinders	231,312 190,708	
Bytes Per Sector (HOST)	512 byte	
Bytes Per Sector (DISK)	4096 byte	
Logical Blocks (LBA)	976,773,168	625,142,448
Maximum Areal Density	1153.4Mbit/mm² (744.1 Gbits/in²)	746.7 Mbit/mm² (481.7 Gbits/in²
Performance		
Track-to-track Seek	2ms	
Max. seek time	22ms	
Buffer Speed	8 MB	
Rotation Speed	5,400 RPM	
Average Latency Time	5.56	6ms
Reliability		
Load/Unload	600,000	
Error Rate Non-recoverable	1/10 ¹⁴ k	oit read
Power Requirements		
Voltage	5V (+/- 5%)	
Start	4.5 watts	
Seek	1.85 watts	
Read/Write Power	1.5 watts	
Low Power Idle Standby Power	0.55 watts 0.18 watts	
Sleep Power	0.18 watts	
Physical Size	0.10	·· ····
Dimensions (W) x (D) x (H)	69.85 mm x 100 mm x 7.0 mm	
Weight	92 g (Max.)	
Environmental		
Temp - Operating	5 to 55 °C	
Temp - Non-Operating	-40 5 to 65 °C	
Vibration (Operating)	9.8 m/s ² (1.0 G)	
Vibration (Non-Operating)	49 m/s ² (5.0 G)	
Shock (Operating)	3,920 m/s ² (400G) (2ms half sine)	
Shock (Non-Operating)	8,820 m/s ² (900G) (1ms half sine)	
Acoustics		
Acoustics (idle)	19 dB	
Acoustics (seek)	21	dB
Warranty		
Limited Warranty	3 years (from date of purchase)	

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*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.

Subject to Change: While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. Product image may represent design model