



**Robust storage capacity and peace of mind for notebook PCs**

Mobile HDDs for notebook PCs and other devices provide cost-effective storage in a range of capacities from 320GB to 2TB as well as slim line models. Highly robust and silent, these HDDs can be used for a wide variety of consumer and portable devices.

**Mobile  
Hard Disk Drive**



**MQ Series**

2.5 inch model  
with capacities up to 2TB

This compact series is perfect for slim line laptop PCs, all-in-one desktop PCs, and other consumer-oriented devices, with a lineup that includes a wide range of capacities.

Designed for Mobile Use

These HDDs are equipped with drop sensors and other technologies designed to protect stored data from the risks associated with day-to-day usage by busy consumers.

Silent design

Models in this 2.5-inch series are quieter than 3.5-inch models, allowing consumer platforms to be quieter so that you can concentrate on the task at hand.



## Application

- Ultrathin Notebooks portable PCs
- Slim-line desktop and “all-in-one” PCs
- High-End Multimedia Devices

## Specifications

Formatted Capacity		2TB	1TB	1TB	500GB	320GB	500GB	320GB	
Model Number		MQ04ABD200	MQ04ABF100	MQ01ABD100	MQ01ABD050	MQ01ABD032	MQ01ACF050	MQ01ACF032	
Specification									
Recording Technology		SMR			CMR				
Interface		SATA 6 Gbit/s							
Form Factor		2.5 -inch							
Dimensions	Height	9.5 mm	7.0 mm	9.5 mm			7.0 mm		
	Length	100 mm							
	Wide	69.85 mm							
Maximum Weight		117 g	92 g	117 g	107g		92 g		
Performance									
Rotation Speed		5,400 rpm					7,278 rpm		
Buffer Size		128 MiB			8 MiB		16 MiB		
Shock Sensor		Supported							
Reliability									
MTTF		600,000 hours							
Load/Unload		600,000 times							
Power Requirements									
Supply Voltage		5 V ±5 %							
Power Consumption	Low Power Idle	0.60 W			0.55 W		0.8 W		
Environmental Requirements									
Surface Temperature	Operating	0 to 65 °C			5 to 55 °C				
	Non-Operating	-40 to 65 °C							
Vibration	Non-Operating	49 m/s <sup>2</sup> {5.0 G} ( 15 to 500 Hz )							
Shock	Non-Operating	9,800 m/s <sup>2</sup> { 1,000 G } ( 2 ms duration )			8,820 m/s <sup>2</sup> { 900 G } ( 1 ms duration )				
Acoustic	Idle	23 dB	19 dB	23 dB	17 dB		23 dB		

•Definition of capacity: Toshiba defines a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2<sup>30</sup> = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary. •A mebibyte (MiB) means 2<sup>20</sup>, or 1,048,576 bytes. •MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF. •Read and write speed may vary depending on the host device, read and write conditions, and file size. •“2.5-inch” means the form factor of HDDs. They do not indicate drive's physical size.

•Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for.

## Toshiba Electronic Devices & Storage Corporation

<https://toshiba.semicon-storage.com>