

Cloud-scale Capacity

Hard Disk Drive



Durability and reliability

Toshiba's Persistent Write Cache Technology

The lineup includes products with a wide range of uses such as large-scale cloud data centers and more conventional server/storage systems. The highest capacity models help contribute to reduced TCO and a lower cost per unit of storage capacity.

A choice of SATA or

SAS models up to 16TB

With an annual workload of 550TB and MTTE of 2.5 million hours, this series is designed for business critical workloads that require consistent 24/365 performance with high reliability.

Helps to enhances write performance between the host and the drive, and also helps to prevent data loss in the event of a sudden loss of power (512e models).

MG Series

Helium Sealed

Cloud-scale Capacity Hard Disk Drive

- •Cloud-scale Storage Infrastructure
- ·Software-defined data center infrastructure
- •File and Object-based storage infrastructure
- •Mid-line / Nearline Business Critical Workloads
- •Tier 2 Business-Critical Servers and Storage Systems
- •Big Data, Compliance Archive

Specifications

Application



Formatted Ca	pacity		16 TB	14 TB	12 TB	
Model Numbe	SATA	4Kn	MG08ACA16TA	MG07ACA14TA	MG07ACA12TA	
		512e	MG08ACA16TE	MG07ACA14TE	MG07ACA12TE	
	SAS	4Kn	MG08SCA16TA	MG07SCA14TA	MG07SCA12TA	
		512e	MG08SCA16TE	MG07SCA14TE	MG07SCA12TE	
Specification						
Sealed			He			
Recording Technology			CMR			
Form Factor			3.5-inch (Height:26.1 mm, Length: 147.0 mm, Wide:101.85 mm)			
Weight			720 g			
Interface			SATA: 6.0 Gbit/s SAS: 12.0 Gbit/s			
Rotation Speed			7200 rpm			
Buffer Size			512 MiB	256 MiB		
Reliability						
MTTF			2.5 M hours			
Workloads			550 Total TB Transferred per Year			
Environmental	Requireme	nts				
Temperature	Operating	5	5 °C to 55 °C			
Vibration	Operating		7.35 m/s² { 0.75 G } (5 - 300 Hz), 2.45 m/s² { 0.25 G } (300 - 500 Hz)			
	Non-Operating		29.4 m/s ² { 3.0 G } (5 - 500 Hz)			
Shock	Shock Non-Operating		2450 m/s² { 250 G } (2 ms duration)			
Acoustic Idle			20 dB			

• Definition of capacity: One terabyte (TB) = one trillion bytes, but storage capacity actually available may vary depending on operating environment and formatting. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary. • A mebibyte (MiB) means 2²⁰, or 1 048 576 bytes. • MTTF (Mean Time to Failure) of the HDDs during its life time is 2.5 million hours. This assumes 8760 h/year power on hours (24 hours per one day, 7 days per one week), up to 550TB/year total data transfers, and average HDA surface temperature: 40°C or less. Use at case HDA surface temperature above 40°C may degrade product reliability and reduce warranty period. • Read and write speed may vary depending on the host device, read and write conditions, and file size. • "3.5-inch" means the form $factor of HDDs. They do not indicate drive's physical size. \bullet Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands and the properties of the data written are the properties of the$ from the host system. • 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. • Company names, product names, and service names may be trademarks of their respective companies.

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