TOSHIBA

MG09 SERIES

CLOUD-SCALE CAPACITY HDD

The MG09 Series provides 18 TB ^[1] of conventional magnetic recording (CMR) capacity. The industry-standard 3.5-inch^[2] form-factor provides 7200 rpm performance, and integrates easily into cloud-scale storage infrastructure, business-critical servers and storage, and File and Object storage solutions.

Toshiba's leadership in precision industrial laser welding technology is put to use to permanently seal helium inside the 9-disk mechanics. The helium-sealed design reduces aerodynamic drag to significantly lower the drive's operational power profile, which helps deliver critical TCO benefits for data center infrastructures. The sealed design and corrosion resistant electronics also mitigate against life-time failure modes due to air bourn pollutants and other environmental factors.

The massive 18 TB CMR capacity is delivered using Toshiba's innovative Flux Control Microwave Assisted Magnetic Recording (FC-MAMR) technology. These advances help the MG09 Series to achieve optimum storage capacity and application compatibility, with unsurpassed data reliability. Available with either a SATA 6.0 Gbit/s or a 12.0 Gbit/s SAS interface [3], the MG09 Series models integrate easily into standard 3.5-inch drive bays to help reduce the footprint and operational burden of cloud-scale storage infrastructure, File and Object storage systems, and business critical servers and storage systems.



Product image may represent a design model

KEY FEATURES

- 18/16/14/12/10 TB capacity
- Conventional Magnetic Recording (CMR) for broad compatibility
- Toshiba Flux Control Microwave-assisted Magnetic Recording (FC-MAMR) Technology
- Industry-leading 9-disk helium-sealed design for superior storage density
- Industry Standard 3.5-inch 26.1 mm height Form Factor
- 7200 rpm Performance
- Choice of SATA 6.0 Gbit/s and 12.0 Gbit/s SAS Interfaces
- Lower operational power profile, providing excellent power efficiency (W/TB) for better TCO
- 550 Total TB Transferred per Year Workload Rating[4]
- 512e or 4Kn Advanced Format Sector Technology; (512e Model) Includes Toshiba Persistent Write Cache Technology for Data-Loss Protection in Sudden Power-Loss Events
- Sustained transfer rate and power efficiency improvements vs. prior MG Series generations
- Sanitize Instant Erase (SIE) option model and Self Encrypting Drive (SED) option model^[5]
- Support FFMT (Fast Format) for SAS

APPLICATIONS

- · Cloud-scale Sever and Storage Infrastructure
- · Software-defined data center infrastructure
- · File- and Object-based storage infrastructure
- Tiered Storage Infrastructure Solutions
- Workloads and Use-Cases that Benefit from High Capacity per Spindle disk drives
- Capacity-Optimized Cloud-scale and Rack-Scale Storage Systems
- Compliance Data Archives and Data Life-Cycle Management Storage Systems
- Data Center Data-Protection and Data Back-up Infrastructure

SPECIFICATION

	Item	MG09ACA18T MG09ACP18T	MG09ACA16T MG09ACP16T	MG09ACA14T MG09ACP14T	MG09ACA12T MG09ACP12T	MG09ACA10T MG09ACP10T	
Interface		SATA-3.3					
Formatted Capacity		18 TB	16 TB	14TB	12 TB	10 TB	
	Interface Speed [3]	6.0 Gbit/s, 3.0 Gbit/s, 1.5 Gbit/s					
	Rotation Speed	7200 rpm					
Performance	Buffer Size	512 MiB ^[7]					
	Maximum Sustained Data Transfer Speed	268 MiB/s ^[7]					
	MG09ACAxxxA/AY	4096 B					
Logical Data	MG09ACPxxxA						
Block Length	MG09ACAxxxE/EY [8]	HOST: 512 B, DISK 4096 B					
	MG09ACPxxxE ^[8]						
Supply Voltage	Allowable Voltage	12 V ^[9] ±10 % / 5 V ^[9] +10 % / -7 % ^[10]					
Power	Write / Read (4KB Q1) (Typ.)	8.39	5W	7.96W	7.4	3W	
Consumption	Active Idle (Typ.)	4.16 W 3.77W		3.3	0W		
Acoustics ^[12]	Active Idle (Typ.)	20 dB					

Item		MG09SCA18T MG09SCP18T	MG09SCA16T MG09SCP16T	MG09SCA14T MG09SCP14T	MG09SCA12T MG09SCP12T	MG09SCA10T MG09SCP10T
Interface		SAS-3.0				
Formatted Capa	Formatted Capacity		16 TB	14TB	12 TB	10 TB
	Interface Speed [3]	12.0 Gbit/s, 6.0 Gbit/s, 3.0 Gbit/s, 1.5 Gbit/s				
	Rotation Speed	7200 rpm				
Performance	Buffer Size	512 MiB				
	Maximum Sustained Data Transfer Speed ^[6]	268 MiB/s				
	MG09SCAxxxA/AY	4096 B / 4160 B / 4224 B				
Logical Data	MG09SCPxxxA					
Block Length	MG09SCAxxxE/EY [8]	HOST: 512 B, DISK 4096 B				
	MG09SCPxxxE [8]	HOST: 520 B, DISK 4160 B HOST: 528 B, DISK 4224 B				
Supply Voltage	Allowable Voltage	12 V ^[9] ±10 % / 5 V ^[9] +10 % / -7 % ^[10]				
Power	Write / Read (4KB Q1)(Typ.)	8.71 W		8.40 W	7.9	5 W
Consumption	Active Idle (Typ.)	4.4	.9 W	4.25 W	3.7	6 W
Acoustics ^[11]	Active Idle (Typ.)	20 dB				

ENVIRONMENTAL LIMITS

	Item	Specification		
A mala is not. To make a material	Operating	5 °C to 55 °C (No condensation)		
Ambient Temperature	Non-Operating [12] [13]	-40 °C to 70 °C (No condensation)		
Enclosure surface temperature ^[11]	Operating	5 °C to 60 °C (No condensation)		
Polotivo Uumidity	Operating	5 % to 90 % R.H. (No condensation)		
Relative Humidity	Non-Operating [12]	5 % to 95 % R.H. (No condensation)		
Λ 14:4 d	Operating	- 305 m to +3048 m		
Altitude	Non-Operating [12]	- 305 m to +12 192 m		
Shock [14]	Operating	686 m/s ² { 70 G } (2 ms duration)		
SHOCK	Non-Operating [12]	2450 m/s ² { 250 G } (2 ms duration)		
Vibration ^[14]	Operating [15]	7.35 m/s ² { 0.75 G } (5 to 300 Hz) 2.45 m/s ² { 0.25 G } (300 to 500 Hz)		
	Non-Operating [12] [16]	29.4 m/s ² { 3.0 G } (5 to 500 Hz)		

RELIABILITY

Item	Specification		
MTTF / AFR ^[17]	2 500 000 hours / 0.35 %		
Non-recoverable Error Rate	10 error per 10 ¹⁶ bits read		
Load / Unload	600 000 times		
Availability	24 hours/day, 7 days/week		
Rated Annual Workload	550 TB per year		

- [1] Definition of capacity: Toshiba defines 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 1TB = 2⁴⁰ = 1 099 511 627 776 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.
- [2] "3.5-inch" mean the form factor of HDDs. They do not indicate drive's physical size.
- [3] Read and write speed may vary depending on the host device, read and write conditions, and file size.
- [4] Workload is defined as the amount of data written, read or verified by commands from host system.
 [5] SED supports TCG Enterprise SSCs. And the HDDs which have any security function may not be available in the countries where the use of such HDDs is prohibited or limited due to export control and local regulations.
- [6] The maximum sustained data rate and interface speed may be restricted to the response speed of host system and by transmission characteristics. 1 Gbit/s = 1 000 000 000 bits/s. 1 MiB/s = 1 048 576 bytes/s
- [7] A mebibyte (MiB) means 220, or 1 048 576 bytes.
- [8] Read-modify-write is supported.
- [9] Input voltages are specified at the HDD connector side, during HDD ready state.
- [10] Make sure the value is not less than -0.3 V DC (less than -0.6 V, 0.1 ms) when turning on or off the power. [11] The measuring method is based on ISO 7779.
- [12] Non-operating condition (except storage condition) assumes short term transportation.
- [13] The range of altitude is 3048 m or less. Up to 55 °C at 7620 m. Up to 40 °C at 12 192 m.
- [14] Vibration applied to the HDD is measured at near the mounting screw hole on the frame as much as possible.
- [15] At random seek write/read and default on retry setting with log sweep vibration.
- [16] At power-off state after installation
- [17] MTTF (Mean Time to Failure) of the HDDs during its life time is 2 500 000 hours and AFR (Annualized Failure Rate) is 0.35 %. (POH: 8760 hours per one year (24 hours per one day, 7 days per one week). Average HDA surface temperature: 40 °C or less, workloads: 550 TB per one year, which is defined as the amount of data written, read or verified by commands from host system). Continual or sustained operation at case HDA surface temperature above 40 °C may degrade product reliability.

MODEL NUMBER

Model Number	Interface	Capacity	Sector Format	Optional Security
MG09ACA18TA	SATA-3.3	18 TB	4Kn	
MG09ACA16TA	SATA-3.3	16 TB	4Kn	
MG09ACA14TA	SATA-3.3	14 TB	4Kn	
MG09ACA12TA	SATA-3.3	12 TB	4Kn	
MG09ACA10TA	SATA-3.3	10 TB	4Kn	
MG09ACA18TE	SATA-3.3	18 TB	512e	
MG09ACA16TE	SATA-3.3	16 TB	512e	
MG09ACA14TE	SATA-3.3	14 TB	512e	
MG09ACA12TE	SATA-3.3	12 TB	512e	
MG09ACA10TE	SATA-3.3	10 TB	512e	
MG09ACA18TAY	SATA-3.3	18 TB	4Kn	SIE
MG09ACA16TAY	SATA-3.3	16 TB	4Kn	SIE
MG09ACA14TAY	SATA-3.3	14 TB	4Kn	SIE
MG09ACA12TAY	SATA-3.3	12 TB	4Kn	SIE
MG09ACA10TAY	SATA-3.3	10 TB	4Kn	SIE
MG09ACA18TEY	SATA-3.3	18 TB	512e	SIE
MG09ACA16TEY	SATA-3.3	16 TB	512e	SIE
MG09ACA14TEY	SATA-3.3	14 TB	512e	SIE
MG09ACA12TEY	SATA-3.3	12 TB	512e	SIE
MG09ACA10TEY	SATA-3.3	10 TB	512e	SIE
MG09ACP18TA	SATA-3.3	18 TB	4Kn	SED
MG09ACP16TA	SATA-3.3	16 TB	4Kn	SED
MG09ACP14TA	SATA-3.3	14 TB	4Kn	SED
MG09ACP12TA	SATA-3.3	12 TB	4Kn	SED
MG09ACP10TA	SATA-3.3	10 TB	4Kn	SED
MG09ACP18TE	SATA-3.3	18 TB	512e	SED
MG09ACP16TE	SATA-3.3	16 TB	512e	SED
MG09ACP14TE	SATA-3.3	14 TB	512e	SED
MG09ACP12TE	SATA-3.3	12 TB	512e	SED
MG09ACP10TE	SATA-3.3	10 TB	512e	SED

MG09SCA18TA SAS-3.0 18 TB 4Kn MG09SCA16TA SAS-3.0 16 TB 4Kn MG09SCA14TA SAS-3.0 14 TB 4Kn MG09SCA12TA SAS-3.0 12 TB 4Kn MG09SCA10TA SAS-3.0 10 TB 4Kn MG09SCA10TE SAS-3.0 18 TB 512e MG09SCA16TE SAS-3.0 16 TB 512e MG09SCA12TE SAS-3.0 12 TB 512e MG09SCA10TE SAS-3.0 10 TB 512e MG09SCA18TAY SAS-3.0 18 TB 4Kn SIE MG09SCA16TAY SAS-3.0 16 TB 4Kn SIE MG09SCA16TAY SAS-3.0 16 TB 4Kn SIE MG09SCA14TAY SAS-3.0 14 TB 4Kn SIE MG09SCA16TAY SAS-3.0 12 TB 4Kn SIE MG09SCA16TAY SAS-3.0 12 TB 4Kn SIE MG09SCA14TAY SAS-3.0 10 TB 4Kn SIE	Model Number	Interface	Capacity	Sector Format	Optional Security
MG09SCA14TA SAS-3.0 14 TB 4Kn MG09SCA12TA SAS-3.0 12 TB 4Kn MG09SCA10TA SAS-3.0 10 TB 4Kn MG09SCA18TE SAS-3.0 18 TB 512e MG09SCA16TE SAS-3.0 16 TB 512e MG09SCA14TE SAS-3.0 14 TB 512e MG09SCA12TE SAS-3.0 10 TB 512e MG09SCA10TE SAS-3.0 10 TB 512e MG09SCA10TE SAS-3.0 10 TB 512e MG09SCA16TAY SAS-3.0 18 TB 4Kn SIE MG09SCA16TAY SAS-3.0 14 TB 4Kn SIE MG09SCA12TAY SAS-3.0 12 TB 4Kn SIE MG09SCA12TAY SAS-3.0 12 TB 4Kn SIE MG09SCA16TEY SAS-3.0 10 TB 4Kn SIE MG09SCA16TEY SAS-3.0 18 TB 512e SIE MG09SCA14TEY SAS-3.0 14 TB 512e SIE	MG09SCA18TA	SAS-3.0	18 TB	4Kn	
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MG09SCA18TE SAS-3.0 18 TB 512e MG09SCA16TE SAS-3.0 16 TB 512e MG09SCA14TE SAS-3.0 14 TB 512e MG09SCA10TE SAS-3.0 12 TB 512e MG09SCA10TE SAS-3.0 10 TB 512e MG09SCA18TAY SAS-3.0 18 TB 4Kn SIE MG09SCA16TAY SAS-3.0 16 TB 4Kn SIE MG09SCA14TAY SAS-3.0 12 TB 4Kn SIE MG09SCA12TAY SAS-3.0 12 TB 4Kn SIE MG09SCA10TAY SAS-3.0 10 TB 4Kn SIE MG09SCA18TEY SAS-3.0 18 TB 512e SIE MG09SCA16TEY SAS-3.0 16 TB 512e SIE MG09SCA14TEY SAS-3.0 14 TB 512e SIE MG09SCA12TEY SAS-3.0 12 TB 512e SIE MG09SCA12TEY SAS-3.0 10 TB 4Kn SED MG09SCP18TA SAS-3.0 <td>MG09SCA12TA</td> <td>SAS-3.0</td> <td>12 TB</td> <td>4Kn</td> <td></td>	MG09SCA12TA	SAS-3.0	12 TB	4Kn	
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MG09SCA16TEY SAS-3.0 16 TB 512e SIE MG09SCA14TEY SAS-3.0 14 TB 512e SIE MG09SCA12TEY SAS-3.0 12 TB 512e SIE MG09SCA10TEY SAS-3.0 10 TB 512e SIE MG09SCP18TA SAS-3.0 18 TB 4Kn SED MG09SCP16TA SAS-3.0 16 TB 4Kn SED MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCA10TAY	SAS-3.0	10 TB	4Kn	SIE
MG09SCA14TEY SAS-3.0 14 TB 512e SIE MG09SCA12TEY SAS-3.0 12 TB 512e SIE MG09SCA10TEY SAS-3.0 10 TB 512e SIE MG09SCP18TA SAS-3.0 18 TB 4Kn SED MG09SCP16TA SAS-3.0 16 TB 4Kn SED MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCA18TEY	SAS-3.0	18 TB	512e	SIE
MG09SCA12TEY SAS-3.0 12 TB 512e SIE MG09SCA10TEY SAS-3.0 10 TB 512e SIE MG09SCP18TA SAS-3.0 18 TB 4Kn SED MG09SCP16TA SAS-3.0 16 TB 4Kn SED MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCA16TEY	SAS-3.0	16 TB	512e	SIE
MG09SCA10TEY SAS-3.0 10 TB 512e SIE MG09SCP18TA SAS-3.0 18 TB 4Kn SED MG09SCP16TA SAS-3.0 16 TB 4Kn SED MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCA14TEY	SAS-3.0	14 TB	512e	SIE
MG09SCP18TA SAS-3.0 18 TB 4Kn SED MG09SCP16TA SAS-3.0 16 TB 4Kn SED MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCA12TEY	SAS-3.0	12 TB	512e	SIE
MG09SCP16TA SAS-3.0 16 TB 4Kn SED MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCA10TEY	SAS-3.0	10 TB	512e	SIE
MG09SCP14TA SAS-3.0 14 TB 4Kn SED MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCP18TA	SAS-3.0	18 TB	4Kn	SED
MG09SCP12TA SAS-3.0 12 TB 4Kn SED MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCP16TA	SAS-3.0	16 TB	4Kn	SED
MG09SCP10TA SAS-3.0 10 TB 4Kn SED MG09SCP18TE SAS-3.0 18 TB 512e SED MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCP14TA	SAS-3.0	14 TB	4Kn	SED
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MG09SCP16TE SAS-3.0 16 TB 512e SED MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCP10TA	SAS-3.0	10 TB	4Kn	SED
MG09SCP14TE SAS-3.0 14 TB 512e SED MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCP18TE	SAS-3.0	18 TB	512e	SED
MG09SCP12TE SAS-3.0 12 TB 512e SED	MG09SCP16TE	SAS-3.0	16 TB	512e	SED
	MG09SCP14TE	SAS-3.0	14 TB	512e	SED
MG09SCP10TE SAS-3.0 10 TB 512e SED	MG09SCP12TE	SAS-3.0	12 TB	512e	SED
	MG09SCP10TE	SAS-3.0	10 TB	512e	SED