7,200 RPM
MG03ACA/MG03ACAY/ MG03SCA/MG03SCP Series Hard Disk Drives

TOSHIBA
Leading Innovation

Enterprise-class reliability, high storage capacities and performance efficiencies.

MG03ACA400
MG03ACA300
MG03ACA200
MG03ACA100
MG03ACA400Y
MG03ACA300Y
MG03ACA200Y
MG03ACA100Y
MG03SCA400
MG03SCA300
MG03SCA200
MG03SCA100
MG03SCP400
MG03SCP300
MG03SCP200
MG03SCP100

The Toshiba MG03ACA/MG03SCA series HDDs are designed to support enterprise applications where reliability, high capacity, and performance are required. The series is ideally suited for data archives and digital records storage, entry and business critical server and storage systems, disk backup systems—including remote sites for data protection and business continuity, and tiered virtual infrastructure for public and private cloud deployments (IaaS and PaaS).

The optional SATA self-encrypting (SED) models support fast and secure cryptographic erase using both the latest T13 SANITIZE crypto-scramble protocol and the older T13 ATA Security Erase command protocol. The optional SAS SED models support both the T10 SANITIZE crypto-erase feature and the Trusted Computing Group Enterprise Security Sub-Classification protocols. These proven, industry-standard security technologies support "nearly instantaneous" cryptographic-erase of user data to enable fast and secure device retirement or redeployment. Using SEDs can eliminate the need for lengthy data overwrite cycles and reduce IT department expenses associated with secure data destruction and device sanitization.

The series leverages the expertise and history of Toshiba in enterprise-class storage and offers similar features as traditional enterprise-class drives including 24 x 7 operation, Error Correction (ECC) and a 5-year warranty. The MG0ACA SATA interface models support the ATA Enhanced Secure Cryptographic Erase function.

- Lowest Cost Per GB Enterprise Storage Option
- 6 Gb/sec SAS and 6 Gb/sec (SATA) Interfaces
- Error Correction (ECC)
- Optional Self-Encrypting (SED) Models
- 5 Year Warranty

Hard Drive

7,200 RPM

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	SATA 6Gbps			
Standard	MG03ACA400	MG03ACA300	MG03ACA200	MG03ACA100
Encryption T13 SANITIZE crypto-scramble and T13 ATA security erase	MG03ACA400Y	MG03ACA300Y	MG03ACA200Y	MG03ACA100Y
	SAS-2.0 (1.5Gbps, 3.0Gbps, 6.0Gbps)			
Standard	MG03SCA400	MG03SCA300	MG03SCA200	MG03SCA100
Encryption T10 SANITIZE crypto-erase and TCG-enterprise SSC	MG03SCP400	MG03SCP300	MG03SCP200	MG03SCP100
Basic Specification				
Formatted capacity	4TB*	3TB*	2TB*	1TB*
Performance				
Buffer Size	64MiB FIFO ring buffer			
Rotation Speed	7,200 RPM			
Average Latency Time	4.17ms			
Average seek time(read)	8.5ms			
Average seek time(write)	9.5ms			
Sustained transfer rate (Max.)	165 MB/s (4TB models); 155 MB/s (1TB, 2TB, 3TB models)			
Reliability				
Load/Unload	600,000 times			
MTTF	1,200,000 hours			
Operationg condition	24 hours/day, 7day/week, 100% duty			
Supply Voltage				
Allowable Voltage	5V±5% , 12V±5%			
Power Consumption				
Read/Write	11.3 watts			
Low power idle	6.0 watts			
Physical Size				
Dimensions (W) x (D) x (H)	101.6 mm x 147 mm x 26.1 mm			
Weight	720g (Max.)			
Temperature				
Operating	5 ~ 55°C			
Non-operating	-40° ~ 70°C			
Vibration/Shock				
Vibration (op)	7.35m/s^2 (0.75G, 5~300Hz) 2.45m/s^2 (0.25G, 300~500Hz)			
Vibration (non-op)	49 m/s^2 (5G, 5~500Hz)			
Shock (op)	686 m/s^2 (70G) 2ms			
Shock (non-op)	2,940 m/s^2 (300G) 2ms			
Acoustics				
Acoustics	31 dB			
Warranty				
Limited Warranty	5 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.

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.