



# Enterprise Hard Drives

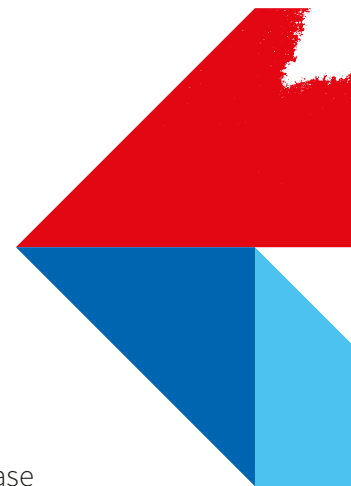
## MG Series

### Enterprise Capacity HDD

#### Use for:

Business Critical Enterprise Server and Storage Systems | Enterprise Storage Arrays | Cloud and Hyperscale Storage Systems | Big Data, Distributed File Systems | Enterprise Archive and Data Recovery Systems | Industrial Server- and Storage Systems

- 550 TB/year workload
- 24/7 operation
- Flexibility in block size
- Persistent Write Cache Technology
- 5-year warranty
- Optional: Self-Encryption, Instant Erase



Model Number	Basic Specifications								Performance		Reliability																	
	Form-factor	Fill Gas & Recording	Capacity (GB)	Block Size (Byte)	Spindle Speed (RPM)	Buffer Size (MiByte)	Interface	Security Options	Data Rate (sustained) (MB/s)	Operating Power (W) typ.	MTTF (hrs)	Unrecoverable Error Rate	Duty	Rated Workload (TB/year)	Warranty (years)													
<b>ENTERPRISE CAPACITY HDD WITH SAS 12 GBIT/S INTERFACE – BUSINESS CRITICAL STORAGES WITH LARGE CAPACITY</b>																												
MG04SCA20EN	3.5"	Air CMR	2,000	512n	7,200	128	SAS 12 Gbit/s	SIE	204	11.8	1.4 mill.	1 in 10 <sup>15</sup>	24/7	550	5													
MG04SCA40EN			4,000					SIE																				
MG08SDA400N			4,000					SIE/SED								233												
MG04SCA20EE			2,000					SIE								215												
MG04SCA40EE			4,000					SIE/SED								215												
MG08SDA400E			4,000					SIE/SED								255												
MG04SCA60EE			6,000					SIE/SED								215												
MG06SCA600E			6,000					SIE								241												
MG08SDA600E			6,000					SIE/SED								251												
MG06SCA800E			8,000					SIE/SED								249												
MG08SDA800E		8,000	SIE/SED	260																								
MG06SCA10TE		10,000	SIE/SED	249																								
MG07SCA12TE		12,000	Helium CMR	512e	7,200	256	SAS 12 Gbit/s	SIE/SED	254	7.8	2.0 mill.	1 in 10 <sup>15</sup>	24/7	550	5													
MG07SCA14TE		14,000						SIE/SED								260												
MG08SCA14TE		14,000						SIE								260												
MG08SCA16TE		16,000						SIE/SED								275												
MG09SCA16TE		16,000						SIE/SED								281												
MG09SCA18TE		18,000						SIE/SED								281												
<b>ENTERPRISE CAPACITY HDD WITH SAS 12 GBIT/S INTERFACE – BUSINESS CRITICAL STORAGES WITH LARGE CAPACITY</b>																												
MG04SCA20EA		3.5"						Air CMR								2,000	4Kn	7,200	128	SAS 12 Gbit/s	SIE	215	11.8	1.4 mill.	1 in 10 <sup>15</sup>	24/7	550	5
MG04SCA40EA	4,000															SIE/SED					215							
MG08SDA400A	4,000															SIE/SED					255							
MG04SCA60EA	6,000		SIE/SED	215																								
MG06SCA600A	6,000		SIE	241																								
MG08SDA600A	6,000		SIE/SED	251																								
MG06SCA800A	8,000		SIE/SED	249																								
MG08SDA800A	8,000		SIE/SED	260																								
MG06SCA10TA	10,000		SIE/SED	249																								

# MG Series Enterprise Capacity HDD

Model Number	Basic Specifications								Performance		Reliability																		
	Form-factor	Fill Gas & Recording	Capacity (GB)	Block Size (Byte)	Spindle Speed (RPM)	Buffer Size (MiByte)	Interface	Security Options	Data Rate (sustained) (MB/s)	Operating Power (W) typ.	MTTF (hrs)	Unrecoverable Error Rate	Duty	Rated Workload (TB/year)	Warranty (years)														
<b>ENTERPRISE CAPACITY HDD WITH SAS 12 GBIT/S INTERFACE – BUSINESS CRITICAL STORAGES WITH LARGE CAPACITY</b>																													
MG07SCA12TA	3.5"	Helium CMR	12,000	4Kn	7,200	256	SAS 12 Gbit/s	SIE/SED	254	7.8	2.5 mill.		24/7	550	5														
MG07SCA14TA			14,000					SIE/SED	260	8.4																			
MG08SCA14TA			14,000					SIE	260	8.2																			
MG08SCA16TA			16,000					SIE/SED	275	8.2																			
MG09SCA16TA		Helium MAMR	16,000			SIE/SED		281	9.2																				
MG09SCA18TA			18,000			SIE/SED		281	9.2																				
<b>ENTERPRISE CAPACITY HDD WITH SATA 6 GBIT/S INTERFACE – MAINSTREAM SERVER AND STORAGE, HYPERSCALE- AND CLOUD STORAGE</b>																													
MG04ACA100N	3.5"	Air CMR	1,000	512n	7,200	128	SATA 6 Gbit/s	SIE	204	11.3	1.4 mill.	1 in 10 <sup>15</sup>	24/7	550	5														
MG04ACA200N			2,000					SIE																					
MG04ACA400N			4,000					SIE																					
MG08ADA400N			4,000					SIE/SED								233	8.1	2.0 mill.											
MG04ACA200E			2,000	512e	7,200	256	SATA 6 Gbit/s	SIE	184	11.3	1.4 mill.	1 in 10 <sup>15</sup>	24/7	550	5														
MG04ACA400E			4,000					SIE	194	11.3	1.4 mill.																		
MG08ADA400E			4,000					SIE/SED	255	8.1	2.0 mill.																		
MG04ACA600E			6,000					SIE	215	11.3	1.4 mill.																		
MG06ACA600E			6,000					SIE	241	9.0	2.5 mill.																		
MG08ADA600E			6,000					SIE/SED	251	8.7	2.0 mill.																		
MG06ACA800E			8,000					SIE	241	9.8	2.5 mill.																		
MG08ADA800E			8,000					SIE/SED	260	9.5	2.0 mill.																		
MG06ACA10TE			10,000					512	7,200	256	SATA 6 Gbit/s					SIE/SED	249	10.6	2.5 mill.										
MG07ACA12TE			12,000													SIE/SED	254	7.8											
MG07ACA14TE			14,000													SIE/SED	260	8.0											
MG08ACA14TE			14,000													SIE	260	7.7											
MG08ACA16TE			16,000													SIE/SED	275	8.3											
MG09ACA16TE			16,000													SIE/SED	281	8.3											
MG09ACA18TE			18,000													SIE/SED	281	8.3											
MG04ACA200A			2,000													Air CMR	4Kn	7,200		256	SATA 6 Gbit/s	SIE	184	11.3	1.4 mill.	1 in 10 <sup>15</sup>	24/7	550	5
MG04ACA400A			4,000																			SIE	194	11.3	1.4 mill.				
MG08ADA400A			4,000																			SIE/SED	255	8.1	2.0 mill.				
MG04ACA600A			6,000																			SIE	215	11.3	1.4 mill.				
MG06ACA600A			6,000																			SIE	241	9.0	2.5 mill.				
MG08ADA600A		6,000	SIE/SED																			251	8.7	2.0 mill.					
MG06ACA800A		8,000	SIE																			241	9.8	2.5 mill.					
MG08ADA800A		8,000	SIE/SED																			260	9.5	2.0 mill.					
MG06ACA10TA		10,000	Helium CMR																			7,200	256	SATA 6 Gbit/s	SIE				
MG07ACA12TA		12,000		SIE	254	7.8																							
MG07ACA14TA		14,000		SIE	260	8.0																							
MG08ACA14TA		14,000		SIE	260	7.7																							
MG08ACA16TA		16,000		SIE/SED	275	8.3																							
MG09ACA16TA		16,000		SIE/SED	281	8.3																							
MG09ACA18TA		18,000		SIE/SED	281	8.3																							

- „2.5-inch“ and „3.5-inch“ mean the form factor of HDDs. They do not indicate drive's physical size.
- IOPS: Input Output Per Second (or the number of I/O operations per second)
- A = Advanced Format Sector (4k), E = 512byte Sector Emulated, N = 512byte Sector Native, P = 4Kn Q=512e
- 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.
- SIE = Sanitize Instant Erase, SED = Self Encrypting Drives, FIPS = Federal Information Processing Standard
- Images displayed of the Internal Hard Drives are for illustration purposes only and do not show the actual products. The images are merely intended to help illustrate the function of the products.

**Toshiba Electronics Europe GmbH**  
Hansaallee 181  
40549 Düsseldorf, Germany

**Further information**  
toshiba-storage.com