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MG Series Enterprise Capacity Hard Drives

Designed for your enterprise business

As Big Data drives demand for more distributed storage in the cloud and on premises, enterprise server and storage systems need to be built using trusted solutions. Toshiba's Enterprise Capacity Hard Drive – MG Series offers formatted capacities as high as 24 TB with interface options including SATA and SAS and delivers 24/7 operation at a workload of 550 TB/year. The MG Series is ideal for enterprise storage array and industrial server and storage systems. It provides the capacity and advanced technologies to meet the special demands of datacenter and cloud-scale infrastructures.

Use for

- Enterprise Server
- Enterprise Storage
- Cloud Scale up and Scale out Storage
- Archive Systems
- Industrial and Surveillance Storage

Top Features

- 3.5" SATA or SAS Hard Drive
- 7,200 rpm
- Persistent Write Cache Technology
- 550 TB/year workload
- Flexibility in block size
- 24/7 operation
- 5-year warranty

Capacities

24 TB	22 TB	20 TB	18 TB	16 TB	14 TB	12 TB
10 TB	8 TB	6 TB	4 TB	2 TB	1 TB	



MG Series Enterprise Hard Drive – 24 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG11SCA24TE
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	24,000
Block Size (Byte)	512e
Buffer Size (MiByte)	1,024
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	309
Operating Power (W) typ.	9.6 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG11ACA24TE
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	24,000
Block Size (Byte)	512e
Buffer Size (MiByte)	1,024
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	309
Operating Power (W) typ.	9.2 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 22 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG11SCA22TE MG10SFA22TE
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	22,000
Block Size (Byte)	512e
Buffer Size (MiByte)	1024 512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	299 284
Operating Power (W) typ.	9.6 W typ. 10.2 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG11ACA22TE MG10AFA22TE
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	22,000
Block Size (Byte)	512e
Buffer Size (MiByte)	1024 512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	299 284
Operating Power (W) typ.	9.2 W typ. 9.8 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 20 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG11SCA20TE MG10SCA20TE MG10SCA20TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	20,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	9.6 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ACA20TE MG10ACA20TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	20,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	9.2 W typ. 9.3 W typ. 9.3 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 18 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG11SCA18TE MG09SCA18TE MG09SCA18TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	18,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	9.4 W typ. 9.2 W typ. 9.2 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG11ACA18TE MG09ACA18TE MG09ACA18TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	18,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	9.0 W typ. 8.3 W typ. 8.3 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 16 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG11SCA16TE MG09SCA16TE MG09SCA16TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	16,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	8.9 W typ. 9.2 W typ. 9.2 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG09ACA16TE MG09ACA16TE MG09ACA16TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	16,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	8.4 W typ. 8.3 W typ. 8.3 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 14 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG11SCA14TE MG09SCA14TE MG09SCA14TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	14,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	8.9 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG11ACA14TE MG09ACA14TE MG09ACA14TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	14,000
Block Size (Byte)	512e 512e 4Kn
Buffer Size (MiByte)	1024 512 512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	295 281 281
Operating Power (W) typ.	8.4 W typ. 8.5 W typ. 8.5 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 12 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG09SCA12TE MG09SCA12TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	12,000
Block Size (Byte)	512e 4Kn
Buffer Size (MiByte)	512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	8.4 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG09ACA12TE MG09ACA12TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	12,000
Block Size (Byte)	512e 4Kn
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	7.9 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 10 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG10SDA10TE
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	10,000
Block Size (Byte)	512e
Buffer Size (MiByte)	512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	11.3 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ADA10TE
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	10,000
Block Size (Byte)	512e
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	11.0 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 8 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG10SDA800E
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	8,000
Block Size (Byte)	512e
Buffer Size (MiByte)	512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	10.5 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ADA800E
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	8,000
Block Size (Byte)	512e
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	10.1 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 6 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG10SDA600E
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	6,000
Block Size (Byte)	512e
Buffer Size (MiByte)	512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	9.7 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ADA600E
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	6,000
Block Size (Byte)	512e
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281
Operating Power (W) typ.	9.3 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 4 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG10SDA400E MG10SDA400N
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	4,000
Block Size (Byte)	512e 512n
Buffer Size (MiByte)	512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281 239
Operating Power (W) typ.	8.9 W typ. 9.6 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ADA400E MG10ADA400N
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	4,000
Block Size (Byte)	512e 512n
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281 239
Operating Power (W) typ.	8.6 W typ. 9.3 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 2 TB

Enterprise Capacity HDD with SAS 12 Gbit/s Interface – Business Critical Storages with large capacity

Model Number	MG10SDA200E MG10SDA200N
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	2,000
Block Size (Byte)	512e 512n
Buffer Size (MiByte)	512
Interface	SAS 12 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281 204
Operating Power (W) typ.	8.0 W typ. 8.7 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ADA200E MG10ADA200N
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	2,000
Block Size (Byte)	512e 512n
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	281 221
Operating Power (W) typ.	7.7 W typ. 8.3 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶

MG Series Enterprise Hard Drive – 1 TB

Enterprise Capacity HDD with SATA 6 Gbit/s Interface – Mainstream Server and Storage, Hyperscale- and Cloud Storage

Model Number	MG10ADA100N
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Basic Specifications

Fill Gas & Recording	Air CMR
Capacity (GB)	1,000
Block Size (Byte)	512n
Buffer Size (MiByte)	512
Interface	SATA 6 Gbit/s
Security Options	SIE/SED

Performance

Data Rate (sustained) (MB/s)	221
Operating Power (W) typ.	7.6 W typ.

Reliability

MTTF (hours)	2.0 mill.
Unrecoverable error rate	1 per 10 ¹⁶