

# TOSHIBA



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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 <sup>15</sup>

### 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 <sup>15</sup>

# MG Series

## Enterprise Hard Drive – 22 TB

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

Model Number	MG10SFA22TE
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Basic Specifications

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

Performance

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

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 <sup>15</sup>

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

Model Number	MG10AFA22TE
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Basic Specifications

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

Performance

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

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 <sup>15</sup>

MG Series

Enterprise Hard Drive – 20 TB

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

Model Number	MG10SCA20TE   MG10SCA20TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	20,000
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.	9.6 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 <sup>15</sup>

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   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.	9.3 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 <sup>15</sup>

# MG Series

## Enterprise Hard Drive – 18 TB

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

Model Number	MG09SCA18TE   MG09SCA18TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	18,000
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.	9.2 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10^15

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

Model Number	MG09ACA18TE   MG09ACA18TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	18,000
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.	8.3 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10^15

# MG Series

## Enterprise Hard Drive – 16 TB

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

Model Number	MG09SCA16TE   MG09SCA16TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	16,000
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.	9.2 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 <sup>15</sup>

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

Model Number	MG09ACA16TE   MG09ACA16TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	16,000
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.	8.3 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10 <sup>15</sup>

# MG Series

## Enterprise Hard Drive – 14 TB

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

Model Number	MG09SCA14TE   MG09SCA14TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	14,000
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.	8.9 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10^15

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

Model Number	MG09ACA14TE   MG09ACA14TA
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Basic Specifications

Fill Gas & Recording	Helium MAMR
Capacity (GB)	14,000
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.	8.5 W typ.

Reliability

MTTF (hours)	2.5 mill.
Unrecoverable error rate	1 per 10^15

# 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 <sup>15</sup>

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 <sup>15</sup>



# 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 <sup>15</sup>

### 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 <sup>15</sup>

# 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 <sup>15</sup>

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 <sup>15</sup>

# 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 <sup>15</sup>

### 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 <sup>15</sup>

# 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 10^15

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 10^15

# 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 10^15

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 10^15

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 <sup>15</sup>