

Toshiba MG10-D Series MG10ADA400E - hard drive - 4 TB - SATA 6Gb/s(MG10ADA400E)

Toshiba MG10-D Series MG10ADA400E - Hard drive - 4 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB



The Toshiba MG10-D Series MG10ADA400E internal hard drive is engineered to meet the demands of continuous, high-capacity storage. With a generous 4 TB capacity and a high data transfer rate of 600 MBps, it is perfectly suited for environments requiring around-the-clock operation. This hard drive incorporates Conventional Magnetic Recording (CMR) and Persistent Write Cache technology, offering reliable performance and enhanced data integrity. Its advanced format options, including 4Kn and 512e, are designed for optimal efficiency and compatibility with various systems. The MG10ADA400E is built to last, featuring a workload capacity of up to 550 TB per year and an MTBF of 2,000,000 hours, ensuring durability and reliability for critical applications. Additionally, its design is optimized for energy efficiency, consuming only 7.29 watts during read/write operations and 3.49 watts during active idle, making it a cost-effective solution for extensive storage needs.

Key Selling Points

- 24x7 operation capability with a 4 TB capacity
- High data transfer rate of 600 MBps for efficient performance
- Advanced format 4Kn and 512e for improved data integrity
- Workload capacity of up to 550 TB per year for high-demand systems
- Energy-efficient with a power consumption of 7.29 watts during read/write operations

Product Features

- Robust performance**
Equipped with a 512 MB buffer size and a data transfer rate of 600 MBps, this internal hard drive ensures swift and reliable data access and transfer, making it ideal for intensive workloads.
- Durable design**
Designed for 24x7 operation with a workload capacity of up to 550 TB per year and an impressive MTBF of 2,000,000 hours, this hard drive is built to withstand the demands of continuous use.
- Efficient operation**
Features such as Persistent Write Cache technology and advanced format options (4Kn and 512e) enhance data integrity and efficiency, suitable for a variety of storage needs.
- Optimized for harsh environments**
With operational durability in temperatures ranging from 5°C to 55°C and robust shock and vibration tolerance, this hard drive ensures consistent performance in challenging conditions.

Main Specifications

Product Description	Toshiba MG10-D Series MG10ADA400E - hard drive - 4 TB - SATA 6Gb/s
Type	Hard drive - internal
Capacity	4 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Features	Conventional magnetic recording (CMR), workload up to 550 TB per year, advanced format 4Kn, advanced format 512e, Persistent Write Cache technology
Weight	690 g

Extended Specification

General

Device Type	Hard drive - internal
Capacity	4 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Buffer Size	512 MB
Features	Conventional magnetic recording (CMR), workload up to 550 TB per year, advanced format 4Kn, advanced format 512e, Persistent Write Cache technology
Weight	690 g

Power

Power Consumption	7.29 Watt (read/write) 3.49 Watt (active idle)
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Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	55 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Humidity Range Operating	5 - 90% (non-condensing)
Shock Tolerance (operating)	70 g @ 2 ms
Shock Tolerance (non-operating)	250 g @ 2 ms
Vibration Tolerance (operating)	0.75 g @ 5-300 Hz
Vibration Tolerance (non-operating)	3 g @ 5-500 Hz
Sound Emission	34 dBA

Performance

Drive Transfer Rate	600 MBps (external)
Internal Data Rate	268 MBps
Spindle Speed	7200 rpm

Reliability

MTBF	2,000,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	10 per 10^16
Load / Unload Cycles	600,000

Expansion & Connectivity

Interfaces	1 x SATA 6 Gb/s
Compatible Bay	3.5"

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