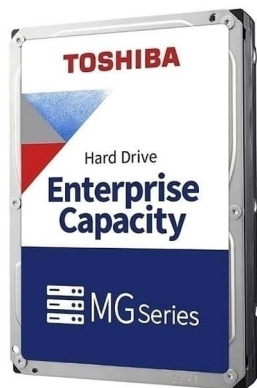


# HDEPZ13GEA51F

Toshiba MG Series Enterprise 12TB 3.5" 7200rpm 512MB Cache SATA3 6Gb/s Hard Disk Drive

## Product Overview

Toshiba MG Series Enterprise 12TB 3.5" 7200rpm 512MB Cache SATA3 6Gb/s Hard Disk Drive, 512e disk Format, HDEPZ13GEA51F



## Specifications

### Overview Summary:

The Toshiba MG Series Enterprise 12TB hard disk drive delivers high-capacity, reliable storage for South African businesses seeking robust enterprise solutions. With a 3.5-inch form factor, 7200rpm speed, and 512MB cache, this HDD ensures consistent performance for servers, storage arrays, and cloud infrastructure. Designed for continuous 24/7 operation, it supports demanding workloads and advanced data protection technologies, making it an ideal choice for critical applications. Shop now to secure dependable enterprise-grade storage.

This 12TB drive is compatible with SATA 6Gb/s interfaces and 512e or 4Kn formats, providing flexible deployment options. Its precision engineering, vibration sensors, and Persistent Write Cache technology enhance reliability and data integrity. Buy now to optimize your storage capacity and maintain high-performance operations for your enterprise needs.

**Performance tier:**Enterprise

**Uses:**Servers, storage arrays, cloud infrastructure, RAID systems, enterprise backup, archival systems, data centers

### Overview:

#### Toshiba MG Series Enterprise 12TB Hard Disk Drive - Reliable High-Capacity Storage

The Toshiba MG Series Enterprise 12TB hard disk drive is built for demanding enterprise environments. With a 3.5-inch form factor, 7200rpm speed, 512MB cache, and SATA 6Gb/s interface, it delivers dependable storage performance for servers, storage arrays, and cloud-scale systems. Its robust design supports continuous 24/7 operation and high workload demands, making it ideal for business-critical applications and large-scale data environments.

### Description:

This enterprise hard drive offers a massive 12TB capacity with advanced technologies for data security and stability. It

supports 24/7 operation with a 550 TB/year workload, includes rotational vibration sensors, and features Toshiba's Persistent Write Cache and Stable Platter technologies for enhanced reliability. Compatible with 512e or 4Kn formats, and available in SATA or SAS interfaces, it provides flexible deployment options for servers, storage arrays, cloud infrastructure, and enterprise backup systems.

## Features:

### Designed for Enterprise Storage Needs

Toshiba's MG Series hard drives are engineered to handle the growing demands of enterprise servers and cloud storage systems. With capacities up to 24TB, they ensure that businesses can store vast amounts of data efficiently while maintaining high reliability. These drives are ideal for:

- Enterprise servers and storage arrays requiring high capacity
- RAID and software-defined storage systems
- Cloud, hyperscale, and Big Data storage solutions
- Archival systems and enterprise backup
- Centralized surveillance storage
- Industrial server and storage applications

### Reliable 24/7 Operation

Each MG Series drive is rated for a 550 TB/year workload, approximately ten times higher than standard desktop drives. Continuous operation ensures your storage infrastructure performs consistently at any time of day or night, delivering the high availability demanded by enterprise environments.

### Advanced Vibration Control

Multi-bay server systems can suffer from performance loss due to vibration. MG Series drives integrate rotational vibration (RV) sensors to detect and compensate for vibrations, reducing the risk of 'knock-on' effects and ensuring smooth operation in dense storage environments.

### Enhanced Data Protection

Persistent Write Cache Technology safeguards data during power interruptions. Any pending data is stored in the flash-based cache and automatically written to the disk when power is restored, protecting critical enterprise data from loss.

### Precision Engineering for Maximum Performance

Toshiba Stable Platter Technology minimizes vibration by stabilizing the motor shaft, improving tracking accuracy during read/write operations. Dynamic Cache Technology optimizes cache allocation for real-time performance, making these drives ideal for high-demand workloads.

### High-Density Storage for Cloud and Enterprise

For capacities of 12TB and above, MG Series drives use a helium-sealed design to enhance storage density and reduce power consumption. The 10-disk platter construction in MG10 and MG11 Series drives ensures maximum efficiency for cloud-scale storage, while laser-welded helium sealing ensures long-term reliability.

### Innovative Data Writing Technology

Toshiba's Flux Control Microwave Assisted Magnetic Recording (FC-MAMR) technology increases areal density, allowing high-capacity storage while maintaining conventional write methods. This enables MG Series drives to achieve up to 24TB in capacity without the limitations of traditional high-density HDDs.

### Flexible Storage Options

MG Series drives support both 512e and 4Kn sector formats, making them compatible with legacy and future systems. They are available in SATA 6Gb/s and dual-port SAS 12Gb/s interfaces and offer block-size flexibility, ensuring seamless integration into enterprise infrastructure. Options for Self-Encrypting Drives (SED) or Sanitize Instant Erase (SIE) provide additional security and data management capabilities.

Key Advantages at a Glance:

- 3.5-inch SATA or SAS interface
- 24/7 operation with 550 TB/year workload
- Stable Platter Technology for vibration reduction
- Persistent Write Cache for data protection
- Integrated RV sensors for multi-bay reliability
- Flexible block-size formats (512e, 4Kn)
- Self-Encrypting and Sanitize Instant Erase options

Specifications:

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| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| Product Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HDEPZ13GEA51F |
| Product Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hard Drive    |
| Storage Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12TB          |
| Cache Storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 512MB Cache   |
| Disk Format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 512e          |
| Maximum Data Transfer Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6Gb/s         |
| RPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7200          |
| Drive Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Internal      |
| Drive Width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.5"          |
| Drive Interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SATA          |
| Interface Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6Gb/s SATA    |
| Form Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LFF           |

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:  
**Product page:**  
<https://www.comx-computers.co.za/HDEPZ13GEA51F-Toshiba-MG-Series-Enterprise-12TB-3-5-Buy-p-329805.php>

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### Product Specification Sheet

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