

HS-SSD-D300-PRO-960G

Hiksemi D300 Pro 960GB 2.5" SATA3 6Gb/s Enterprise Solid State Drive

Product Overview

Hiksemi D300 Pro 960GB 2.5" SATA3 6Gb/s Enterprise Solid State Drive, 536MB/s Sequential Read Speed, 504MB/s Sequential Write Speed, 5256 TB Endurance, DRAM Cache



Specifications

Overview Summary:

The Hiksemi D300 Pro 960GB Enterprise SATA III SSD is built for reliable, high-performance storage in servers, workstations, and data centre environments. With fast sequential read speeds of up to 536MB/s, write speeds of up to 504MB/s, and a DRAM cache for consistent performance, it is well suited to demanding business workloads. Buy now for dependable enterprise-grade storage that keeps critical systems running efficiently.

Designed for long-term reliability and broad platform compatibility, this 2.5-inch SATA SSD is an excellent choice for upgrading enterprise storage infrastructure. Whether you are expanding server capacity or replacing older drives, shop now for a trusted storage solution that delivers dependable performance for South African businesses.

Performance tier:Enterprise

Uses:Data centre storage, Server upgrades, Business storage systems, Virtualisation, Database workloads, File servers, Enterprise workstations, Continuous write-intensive applications

Overview:

Hiksemi D300 Pro 960GB Enterprise SATA III SSD

The Hiksemi D300 Pro 960GB Enterprise SATA III SSD is engineered for servers, enterprise storage systems, and data centres that require dependable performance, high endurance, and consistent operation around the clock. Combining a dual-core controller, external DRAM cache, and advanced 128-layer 3D TLC NAND, this enterprise SSD delivers reliable throughput for demanding workloads while maintaining excellent data integrity and long-term durability.

Description:

Designed for business-critical environments, the Hiksemi D300 Pro 960GB offers a balance of speed, endurance, and enterprise-grade protection. With sequential read speeds up to 536MB/s, write speeds up to 504MB/s, advanced power-loss protection, AES 256-bit hardware encryption, and intelligent firmware management, it is well suited for virtualisation, database applications, cloud infrastructure, and enterprise servers. Its exceptional endurance rating makes it an ideal solution for write-intensive deployments where reliability matters.

Features:

Built for Enterprise Workloads

The D300 Pro is equipped with the MAS1101 dual-core controller, external DRAM cache, and high-quality 128-layer 3D TLC NAND flash memory to provide stable performance under sustained workloads. Intelligent thermal management helps maintain consistent operating speeds, even during continuous data transfers.

Whether deployed in enterprise servers or storage arrays, this SSD is designed to deliver dependable responsiveness while supporting demanding read and write operations throughout its service life.

Reliable Performance for Critical Systems

Consistent throughput is essential in enterprise environments, and the D300 Pro delivers with:

- Sequential read speeds up to 536MB/s
- Sequential write speeds up to 504MB/s
- Random read performance up to 96,000 IOPS
- Random write performance up to 53,000 IOPS

These performance levels make it suitable for database servers, virtual machines, business applications, backup systems, and other mixed enterprise workloads.

Advanced Data Protection

Data integrity remains a priority throughout the drive's operation. Multiple protection technologies work together to safeguard valuable business information.

Key technologies include:

- Power-loss protection using tantalum capacitors
- AES 256-bit hardware encryption
- End-to-end data protection
- Intelligent rescue mode for restoring the data mapping table
- Automatic firmware recovery without requiring a power cycle

When unexpected errors occur, the drive can enter rescue mode, allowing recovery of the mapping table while helping protect stored information.

Excellent Platform Compatibility

Signal calibration technology automatically adjusts signal parameters across different hardware platforms to maximise compatibility with a wide range of enterprise servers and storage controllers.

The drive also supports hot firmware updates, allowing administrators to install firmware improvements without restarting systems, helping minimise maintenance downtime.

Long-Life Enterprise Endurance

The Hiksemi D300 Pro is designed for continuous business operation with an endurance rating of 5,256TBW, equivalent to 3 Drive Writes Per Day (DWPD). Its enterprise reliability is further supported by:

- 2 million hour MTBF
- UBER rating of 10^{17}
- Intelligent thermal throttling
- Enterprise-grade controller architecture

These capabilities make it a dependable storage solution for write-heavy applications and always-on infrastructure.

Technical Details

- Brand: Hiksemi
- Model: D300 Pro
- Part Number / SKU: HS-SSD-D300-PRO-960G
- Capacity: 960GB
- Form Factor: 2.5-inch
- Interface: SATA III 6Gb/s
- NAND Flash: 128-layer 3D TLC
- Controller: MAS1101 Dual-Core
- DRAM Cache: Yes
- Sequential Read Speed: Up to 536MB/s
- Sequential Write Speed: Up to 504MB/s
- Random Read: Up to 96,000 IOPS
- Random Write: Up to 53,000 IOPS
- Endurance: 5,256TBW (3 DWPD)
- Hardware Encryption: AES 256-bit
- Power-Loss Protection: Yes
- MTBF: 2 Million Hours
- Product Weight: 85g
- Dimensions: 100.2 x 69.85 x 6.8mm

Ideal Applications

The Hiksemi D300 Pro 960GB Enterprise SSD is an excellent choice for:

- Enterprise servers
- Data centres
- Storage arrays
- Cloud infrastructure
- Database servers
- Virtualisation platforms
- Business-critical applications
- High-write enterprise environments

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Product Specification Sheet

If you require dependable enterprise storage with excellent endurance, strong security, and stable SATA III performance, the Hiksemi D300 Pro 960GB SSD (Part Number: HS-SSD-D300-PRO-960G) provides a reliable solution for demanding professional environments.

Package Contents

- 1 x Hiksemi D300 Pro 960GB 2.5-inch Enterprise SATA III Solid State Drive

Why Choose Hiksemi

Hiksemi develops storage solutions designed to deliver reliable performance for professional and enterprise environments. The D300 Pro combines enterprise-grade endurance, advanced data protection, and stable SATA III performance, making it a practical choice for organisations seeking dependable storage infrastructure in South Africa.

Specifications:

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Specifications

Product Code	HS-SSD-D300-PRO-960G
Brand	HIKSEMI
Product Weight	85g
Product Dimensions (L x W x H)	10.02 x 6.985 x 0.680mm
Capacity	960 GB
Form Factor	2.5"
Interface	SATA 6Gb/s
Sequential Read	536MB/s
Sequential Write	504MB/s
Endurance	5256 TB
DRAM Cache	True
Heatsink Included	False

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/HS-SSD-D300-PRO-960G-Hiksemi-D300-Pro-960GB-2-5-SATA3-Buy-p-339559.php>

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Product Specification Sheet

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