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HDD TOSHIBA Serial ATA III 3.5 Buffer 512 MB 7200 RPM 12 TB HDWG51CUZSVA

Model: HDWG51CUZSVA

Manufacturer: TOSHIBA

Product Code: 636422

R13,703

Built for 24/7 reliability

EMEA Region, Toshiba Storage Solutions – The 3.5-inch N300 NAS Hard Drive offers unprecedented reliability for NAS and other high-performance storage systems. It is optimized to meet the reliability, endurance, performance and scalability requirements of 24-hour x 7-day high-capacity storage for personal, home office and small business use. The N300 is available in capacities of up to 12 TB.

Use for:

- Network Attached Storage (NAS)
- Desktop RAID and servers
- Multimedia server storage

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- Private cloud storage
- Small business server and storage

Designed for NAS

Through its contact with NAS manufacturers, Toshiba recognizes the need for high-reliability disks in support of modern data storage and retrieval demands including streaming, backup and archiving. The drive, which can support multi-RAID systems with up to 8 hard disk drives, allows large volumes of data to be reliably stored and accessed by multiple clients 24 hours a day, 365 days a year.

Integrated RV sensors

Regular hard disk drives without RV sensors can affect the performance of a multi-bay NAS System by generating 'knock-on' vibration. N300 drives ensure high reliability by minimising vibration effects through their advanced control and sensing technology. Multiple sensors detect the slightest shock and built-in RV sensors also compensate for rotational vibration - eliminating the possibility of 'knock-on' vibration in multi-bay NAS configuration systems.

Reliable always-on operation

NAS systems in small businesses or creative environments often need to be accessed by several users, at different locations, simultaneously. Therefore today's NAS drives must deliver high data transfer rates and simultaneous upload and download 24 hours a day, 7 days a week. Offering high reliability and scalability, N300 drives achieve a max. 180 TB/year workload factor, up to 3 times more than convenient desktop hard drives.

High durability and heat prevention

Use of high-endurance components is one of the reasons that the N300 series offers better durability than other conventional hard disk drives. At the same time, automatic adjustment of seek speed to reduce heat during high-temperature operation further improves endurance in demanding situations.

High speed for multi-drive environment

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High performance and fast read speed is made possible under high data access loads from multiple users thanks to 512 or 256 MB data buffer. This makes the drive suitable for small businesses and creative professionals looking for solutions to handle high data volumes using multi-RAID NAS environments.

Optimised cache allocation

Toshiba’s Dynamic Cache Technology, a self-contained cache algorithm with on-board buffer management, optimizes how the cache is allocated during read/write to provide the high-level performance demanded by real-time domains.

Reduced noise and energy costs

The 12 TB to 18 TB N300 NAS Hard Drives use a helium-sealed design, achieving low power consumption while increasing storage density. Toshiba Group’s laser welding technology ensures that the helium remains securely sealed inside the drive enclosure. With the environment in mind, the helium-filled N300 models minimize acoustic output to just 20db (typical) in idle mode. The devices are ideal for large scale server systems allowing for rich scalability of up to 8 drives.

BUILT TO DELIVER, DESIGNED TO LAST

Toshiba is renowned the world over for 50 years of leading innovation – and the power behind its range of hard drives is no exception. Designed for high capacity and excellent performance, you can be sure that Toshiba’s wealth of experience in hard drives is at work in your storage system. A three year extended warranty is also included with the N300 for the ultimate peace of mind.

- 3.5" SATA Hard Drive
- 7200 rpm
- 128/256 MB buffer
- 24/7 operation
- Supports 1-to-8 bay NAS
- High reliability and enhanced real-time performance
- Toshiba Dynamic Cache Technology

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- Toshiba Stable Platter Technology
- High-endurance design
- Error recovery control
- Temperature control

Summary: Toshiba N300. HDD capacity: 12 TB, HDD speed: 7200 RPM, Storage drive buffer size: 512 MB, HDD size: 3.5", Interface: Serial ATA III | Vendor Homepage: https://www.toshiba-storage.com/products/toshiba-internal-hard-drives-n300/ | 24/7 operation: Yes | Advanced Format (AF): Yes | Average latency: 4.17 | Component for: NAS | Error Recovery Control (ERC): Yes | HDD capacity: 12000 | HDD interface transfer rate: 6 | HDD size: 3.5 | HDD speed: 7200 | HDD sustained transfer rate: 281 | Interface: Serial ATA III | Mean time to failure (MTTF): 1200000 | Native Command Queuing (NCQ): Yes | Rotational Vibration (RV) sensors: Yes | Shock sensor: Yes | Start/stop cycles: 600000 | Storage drive buffer size: 512 | Temperature control: Yes | Type: HDD | Workload rate limit: 180 | Operating voltage: 5 / 12 | Power consumption (read): 6.65 | Power consumption (typical): 4.03 | Power consumption (write): 6.65 | Non-operating shock: 250 | Non-operating vibration: 3 | Operating shock: 70 | Operating temperature (T-T): 5 - 60 | Operating vibration: 0.75 | Storage temperature (T-T): -40 - 70 | Doesn't contain: Halogen | Depth: 147 | Height: 26.1 | Weight: 720 | Width: 101.85 | Quantity per pack: 1 | Compliance certificates: CE/RoHS | Toshiba Dynamic Cache Technology: Yes | Toshiba Stable Platter Technology: Yes | Warranty period: 3 | Product Net Weight: 0.69 | Shipping Box Height: 24.5 | Unit Calculated Volume: 0.001929 | Unit Calculated Weight: 0.745 | Units per Pallet: 0 | Units per Shipping Box: 20 | Model name: N300

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