TOSHIBA



N300 Pro NAS Hard Drives

Trusted Reliability. Built for Business NAS.

Toshiba N300 Pro NAS Hard Drive is ready to help you scale your business with up to 24 drive bay support. Offering a higher workload of up to 300 TB/ year and a capacity of up to 22 TB. You can rely on the N300 Pro to help you take your business to the next level. Delivering the 7200 rpm speed you need to access your data quickly and 24/7 operation to help keep your data readily accessible, these drives are optimized to help keep your business growing.



Use for

- Network Attached Storage for highintensity workloads
- NAS systems for medium or largesized businesses
- RAID-optimized NAS systems with up to 24 bays

Top Features

- Designed for 24/7 operation
- Up to 24 drive bays
- Workload up to 300 TB/year
- MTTF/MTBF 1.2 million hours
- 7200 rpm speed with up to 512 MiB buffer
- CMR technology
- 3.5-inch Form Factor

Capacities

| 22 | 20 | 18 | 16 | 14 |
|----|----|----|----|----|
| тв | тв | тв | тв | тв |
| 12 | 10 | 8 | 6 | 4 |
| тв | тв | тв | тв | тв |

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N300 Pro



NAS Hard Drives

| Capacity *1 | | 22 TB | 20 TB | 18 TB | 16 TB | 14 TB | 12 TB | |
|-------------------------|---------------|--|--------------|--------------|--------------|--------------|--------------|--|
| arts Number | | HDWG62CUZSVB | HDWG62AUZSVB | HDWG51JUZSVB | HDWG51GUZSVB | HDWG51EUZSVB | HDWG51CUZSVE | |
| asic Specifications | | | | | | | | |
| Recording Technolog | y | | | C | MR | | | |
| nterface | | SATA 6.0 Gbit/s | | | | | | |
| Mechanical Design | | Не | | | | | | |
| Form Factor *2 | | 3.5-inch | | | | | | |
| Sector Size | | 512e | | | | | | |
| eatures | | | | | | | | |
| Orive Bays Supported | t | | | up | to 24 | | | |
| 24 / 7 Operation | | | | 1 | /es | | | |
| Rotational Vibration S | Sensor | | | 1 | /es | | | |
| Shock Sensor | | | | ز | /es | | | |
| Performances | | | | | | | | |
| Rotation Speed | | | | 720 | 0 rpm | | | |
| Sustained data transf | er rate *3 | 281 MB/s (268 MiB/s) | | | | | | |
| Buffer Size *4 | | | | 512 | 2 MiB | | | |
| Reliability | | | | | | | | |
| MTTF/MTBF*5 | | | | 1 200 0 | 000 hours | | | |
| Unrecoverable Error F | Rate | 1 per 10E15 l per 10E14 | | | | | | |
| 1aximum rated work | load *6 | | | 300 1 | ſB/year | | | |
| .oad/Unload cycles | | | | 600 00 | 00 times | | | |
| ower Requirements | 5 | | | | | | | |
| Supply Voltage | | 12 VDC ±10 % 5 VDC ±10 / -7 % | | | | | | |
| lower Consumption | Operating | 8.0 | 2 W | 7.4 | 48 W | 7.38 W | 6.85 W | |
| Power Consumption | Active Idle | 4.35 W | 4.41 W | 4.1 | 14 W | 3.77 W | 3.3 W | |
| nvironmental | | | | | | | | |
| omporaturo | Operating | 5 to 60 °C (Surface) | | | | | | |
| Temperature | Non-operating | -40 to 70 °C | | | | | | |
| /ibration | Operating | 7.35 m/s ² {0.75 G} (5 to 300 Hz) 2.45 m/s ² {0.25 G} (300 to 500 Hz) | | | | | | |
| | Non-operating | 29.4 m/s ² {3.0 G} (5 to 500 Hz) | | | | | | |
| | Operating | 490 m/s ² {50 G} (2 ms duration) 686 m/s ² {70 G} (2 ms duration) | | | | | | |
| Shock | Non-operating | 1960 m/s ² {200 G} (2 ms duration) 2450 m/s ² {250 G} (2 ms duration) | | | | | | |
| Acoustics (Active Idle) |) | | | 20 di | В (Тур.) | | | |
| Physical | | | | | | | | |
| Dimension | | 147 (L) × 101.85 (W) × 26.1 (H) mm (Max) | | | | | | |
| Weight | | 720 g (Max) 705 g (Max) 690 g (Max) | | | | | | |

*1 Definition of capacity: One terabyte (TB) = one trillion bytes, but storage capacity actually available may vary depending on operating environment and formatting. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary. *2 "3.5-inch" means the form factor of HDDs. They do not indicate drive's physical size.

²³ Sead and write speed may vary depending on the host device, read and write conditions, and file size.
⁴⁴ A mebibyte (MiB) means 1 048 576 bytes.

*5 MTTF/MTBF (Mean Time to Failure/Mean Time Between Failures) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF/MTBF. *6 Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system.

· Product image may represent a design model

Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product
will be used with or for.

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N300 Pro



NAS Hard Drives

| Capacity *1 | | 10 TB | 8 TB | 8 TB | 6 TB | 6 TB | 4 TB | 4 TB |
|------------------------|---------------|--|----------------|-------------------------|--|-------------------------|-------------------------|-------------------------|
| Parts Number | | HDWG71AUZSVB | HDWG780UZSVB | HDWG480UZSVB | HDWG760UZSVB | HDWG460UZSVB | HDWG740UZSVD | HDWG440UZSVE |
| Basic Specifications | | | | | | | | |
| Recording Technology | / | | | | CMR | | | |
| Interface | | SATA 6.0 Gbit/s | | | | | | |
| Mechanical Design | | Air | | | | | | |
| Form Factor *2 | | 3.5-inch | | | | | | |
| Sector Size | | | | 51 | 2e | | | 512n |
| Features | | | | | | | | |
| Prive Bays Supported | | | | | up to 24 | | | |
| 4/7 Operation | | | | | yes | | | |
| otational Vibration S | ensor | | | | yes | | | |
| Shock Sensor | | yes | | | | | | |
| Performances | | | | | | | | |
| Rotation Speed | | | | | 7200 rpm | | | |
| Sustained data transfe | er rate *3 | 281 (268 f | MB/s MiB/s) | 260 MB/s (248 MiB/s) | 281 MB/s (268 MiB/s) | 250 MB/s (239 MiB/s) | 281 MB/s (268 MiB/s) | 232 MB/s (222 MiB/s) |
| Buffer Size *4 | | 512 | MiB | 256 MiB | 512 MiB | 256 MiB | 512 MiB | 256 MiB |
| Reliability | | | | | | | | |
| /TTF/MTBF*5 | | 1 200 000 hours | | | | | | |
| Jnrecoverable Error R | late | 1 per 10E15 | | | | | | |
| 1aximum rated workl | load *6 | 300 TB/year | | | | | | |
| .oad/Unload cycles | | | | | 600 000 times | | | |
| ower Requirements | | | | | | | | |
| Supply Voltage | | 12 VDC ±10 % 5 VDC +10 / -7 % | | | | | | |
| | Operating | 9.07 W | 8.19 W | 8.7 W | 7.43 W | 7.97 W | 6.75 W | 7.17 W |
| ower Consumption | Active Idle | 5.74 W | 4.92 W | 5.62 W | 4.14 W | 4.89 W | 3.49 W | 4.07 W |
| nvironmental | | | | | | | | |
| Temperature | Operating | 5 to 60 ℃ (Surface) | | | | | | |
| | Non-operating | -40 to 70 °C | | | | | | |
| libration | Operating | 7.35 m/s ² {0.75 G} (5 to 300 Hz) 2.45 m/s ² {0.25 G} (300 to 500 Hz) | | | | | | |
| | Non-operating | 29.4 m/s ² {3.0 G} (5 to 500 Hz) | | | | | | |
| | Operating | 686 m/s² {70 G} (2 ms duration) | | | | | | |
| Shock | Non-operating | 2450 m/s ² {250 G} (2 ms duration) 2940 m/s ² {300 G (2 ms duration) (2 ms duration) | | | | | | |
| coustics (Active Idle) | | 34 dB | (Typ.) | 31 dB (Typ.) | 31 dB (Typ.) 34 dB (Typ.) 31 dB (Typ.) | | 34 dB (Typ.) | 31 dB (Typ.) |
| Physical | | | | | | | | |
| Dimension | | | | 147 (L |) × 101.85 (W) × 26.1 (H) mn | n (Max) | | |
| Veight | | 755 g (Max) | 730 g (Max) | 720 g (Max) | 710 g (Max) | 700 g (Max) | 690 g (Max) | 693 g (Max) |

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4 A mebibyte (MiB) means 1 048 576 bytes.
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6 Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system.

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