

NAS

N300 NAS Hard Drive

Built for 24/7 reliability



16 TB 14 TB 12 TB 10 TB 8 TB 6 TB 4 TB

Color

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 16 TB.

Use for:

- Network Attached Storage (NAS)
- Desktop RAID and servers
- Multimedia server storage
- Private cloud storage
- Small business server and storage



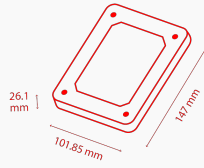
- SATA** 3.5" SATA Hard Drive
- RPM** 7200 rpm
- 256/512 MB buffer
- 24/7** 24/7 operation
- Supports 1-to-8 bay NAS
- High reliability and enhanced real-time performance
- Toshiba Dynamic Cache Technology
- Toshiba Stable Platter Technology
- High-endurance design
- Error recovery control
- Temperature control
- 3-year warranty

Manual

[Installation-and-Safety-Internal-HDDs.pdf](#)



Product Specifications



Basic Specifications

| | |
|--|-----------------|
| Form factor | 3.5-inch |
| Interface | SATA 6.0 Gbit/s |
| Drive bays supported | 1 to 8 |
| Rotational Vibration (RV) Sensors | yes |
| Advanced Format (AF) | yes |
| RoHS compatible | yes |
| Halogen Free | Yes |
| Shock Sensor | yes |

Performance

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|------------------------------------|--|
| Rotational speed | 7,200 rpm |
| Buffer size | 512 MB (16 TB, 14 TB), 256 MB (4 TB - 12 TB) |
| Data transfer speed | 274 MB/s typ. (16 TB), 260 MB/s typ. (14 TB), 253 MB/s typ. (12 TB), 248 MB/s Typ. (10 TB), 248 MB/s Typ. (8 TB), 239 MB/s Typ. (6 TB), 232 MB/s Typ. (4 TB) |
| Average latency | 4.17 ms |
| Native Command Queing (NCQ) | supported |

Reliability

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|---------------------------------|---|
| Workloads | 180 TB/year |
| MTTF | 1,200,000 hours (16 TB, 14 TB) / 1,000,000 hours |
| Unrecoverable error rate | 1 per 1014 bits read (10 TB - 16 TB), 1 per 1015 bits read (4 TB - 8 TB) |
| 24/7 operation | yes |
| Limited warranty | 3 years |

Power Management

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|-----------------------|---|
| Supply voltage | 5VDC (+10%/-7%) / 12VDC ($\pm 10\%$) (16 TB, 14 TB) 5VDC (+10%/-5%) / 12VDC ($\pm 10\%$) (6 TB - 10 TB) 5VDC ($\pm 5\%$) / 12VDC ($\pm 10\%$) (4 TB, 12 TB) |
|-----------------------|---|

Box Content

| | |
|--------------------|--|
| Box Content | 3.5-inch internal hard drive - N300 NAS Hard Drive |
|--------------------|--|

Physical

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|-------------------------|---|
| Weight (approx.) | 693 g max. (4 TB), 700 g max. (6 TB), 770 g max. (10 TB), 720 g max. (8 TB, 12 TB - 16 TB) |
| Dimensions | 147 (L) x 101.85 (W) x 26.1 (H) mm |

Environmental

| | |
|--|--|
| Acoustics (idle mode) | 20 dB typ. (12 TB - 16 TB), 34 dB typ. (10 TB), 31 dB typ. (4 TB - 8 TB) |
| Shock (non-operating) | 2450 m/s ² (250 G) / 2 ms duration |
| Shock (operating) | 686 m/s ² (70 G) / 2 ms duration |
| Vibration (non-operating) | 29.4 m/s ² (3.0 G) (5 to 500Hz) |
| Vibration (operating) | 10 TB - 16 TB: 7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz) 4 TB - 8 TB: 7.35 m/s ² {0.75 G} (2 to 300 Hz) 4.90 m/s ² {0.50 G} (300 to 350 Hz) 2.45 m/s ² {0.25 G} (350 to 500 Hz) |
| Temperature (operating / non-operating) | 0 to 65° C / -40 to 70°C (10 TB, 14 TB, 16 TB) 5 to 65° C / -40 to 70°C (4 TB - 8 TB, 12 TB) |

Power Management

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|----------------------------------|--|
| Consumption - Active Idle | 4.03 W typ. (16 TB, 14 TB) 4.28 W typ. (12 TB), 7.22 W typ. (10 TB), 5.61 W typ. (8 TB), 4.93 W typ. (6 TB), 4.04 W typ. (4 TB) |
|----------------------------------|--|

Product Range

| Part number | Capacity | Color |
|-----------------------|----------|-------|
| HDWG31GUSVA (Bulk) | 16 TB | - |
| HDWG31EEZSTA (Retail) | 14 TB | - |
| HDWG31EUSVA (Bulk) | 14 TB | - |
| HDWG21CEZSTA (Retail) | 12 TB | - |
| HDWG21CUSVA (Bulk) | 12 TB | - |
| HDWG11AEZSTA (Retail) | 10 TB | - |
| HDWG11AUSVA (Bulk) | 10 TB | - |
| HDWG480EZSTA (Retail) | 8 TB | - |
| HDWG480USVA (Bulk) | 8 TB | - |
| HDWG460EZSTA (Retail) | 6 TB | - |
| HDWG460USVA (Bulk) | 6 TB | - |
| HDWG440EZSTA (Retail) | 4 TB | - |
| HDWG440USVA (Bulk) | 4 TB | - |

Logistical Information:

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|------------------------------|---|
| Box dimensions | 189.0 mm (H) x 136.0 mm (W) x 60.0 mm (D) |
| Box weight (gross) | 915 g max. |
| Master carton dimensions | 265 x 150 x 210 mm |
| Master carton weight (gross) | 3914 g max. |
| Boxes per master carton | 4 pcs |
| Pallet dimensions | 1150 x 1150 x 130 mm |
| Pallet weight (net) | n/A |
| Units per pallet | 480 pcs |
| Units per carton | 20 pcs. |
| Carton dimensions | 500 x 310 x 228 mm (12 TB - 16 TB), 410 x 308 x 228 mm (4 TB - 10 TB) |
| Carton weight (gross) | 17 kg (typ.), 16 kg (typ.) (4TB) |
| Units per pallet | 600 pcs. |

Contact

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