

NAS

N300 NAS Hard Drive

Built for 24/7 reliability



16 TB14 TB12 TB10 TB8 TB6 TB4 TB

Color

Toshiba's 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
- 128/256/512 MB buffer
- 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

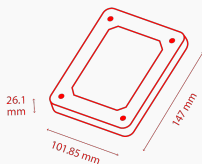
[Toshiba Installation and Safety.pdf](#)

Tools

[TOSHIBA Storage Diagnostic Tool.zip](#)



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

Rotational speed	7,200 rpm
Buffer size	512 MB (16 TB), 256 MB (10 TB - 14 TB), 128 MB (4 TB - 8 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), 241 MB/s Typ. (6 TB, 8 TB), 204 MB/s Typ. (4 TB)
Average latency	4.17 ms
Native Command Queing (NCQ)	supported

Reliability

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

Power Management

Supply voltage	5VDC (+10%/-7%) / 12VDC (±10%) (16 TB) 5VDC (+10%/-5%) / 12VDC (±10%) (10 TB) 5VDC (±5%) / 12VDC (±10%)
----------------	---

Box Content

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

Physical

Weight (approx.)	770 g max. (6 TB - 10 TB), 720 g max. (4 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), 33 dB typ. (6 TB, 8 TB), 30 dB typ. (4 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) (10 TB - 16 TB), 49.0 m/s ² (5.0 G) (5 to 500Hz) or less (4 TB - 8 TB)
Vibration (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)
Temperature (operating / non-operating)	0 to 65° C / -40 to 70°C 5 to 65° C / -40 to 70°C (12 TB - 16 TB)

Power Management

Consumption - Active Idle	4.03 W typ. (16 TB), 4.54 W typ. (14 TB), 4.28 W typ. (12 TB), 7.22 W typ. (10 TB), 6.2 W typ. (8 TB), 6.7 W typ. (6 TB), 5.2 W typ. (4 TB)
---------------------------	---

Product Range

Part number	Capacity	Color
HDWG31GUZSVA (Bulk)	16 TB	-
HDWG21EEZSTA (Retail)	14 TB	-
HDWG21EUSVA (Bulk)	14 TB	-
HDWG21CEZSTA (Retail)	12 TB	-
HDWG21CUSVA(Bulk)	12 TB	-
HDWG11AEZSTA (Retail)	10 TB	-
HDWG11AUSVA (Bulk)	10 TB	-
HDWN180EZSTA (Retail)	8 TB	-
HDWN180USVA (Bulk)	8 TB	-
HDWN160EZSTA (Retail)	6 TB	-
HDWN160USVA (Bulk)	6 TB	-
HDWQ140EZSTA (Retail)	4 TB	-
HDWQ140USVA (Bulk)	4 TB	-

Logistical Information:

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	410 x 308 x 228 mm; 486 x 296 x 200 mm (12TB, 14TB, 16TB)
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB)
Units per pallet	600 pcs.

Contact

Toshiba Electronics Europe GmbH

Hansaallee 181
40549 Düsseldorf
Germany