

Internal Hard Drives

# N300

Built for 24/7 reliability



10 8 6 4  
TB TB TB 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 10 TB.

Use for:

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



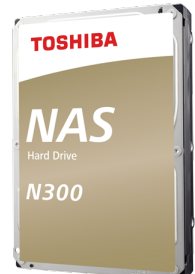
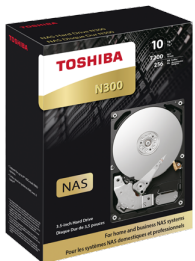
- SATA** 3.5" SATA Hard Drive
- RPM** 7200 rpm
- 128/256 MB buffer
- Supports 1-to-8 bay NAS
- High reliability and enhanced real-time performance
  - Toshiba Dynamic Cache Technology
  - Toshiba Stable Platter Technology
- Perfect for: Personal, home office and small business use
  - Temperature control
  - 3-year warranty
  - 24/7 operation
  - Error recovery control

## Manual

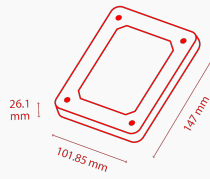
[Toshiba Installation and Safety.pdf](#)

## Tools

[TOSHIBA Storage Diagnostic Tool.zip](#)



# Product Specifications



## Basic Specifications

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

## Performance

<b>Rotational speed</b>	7,200 rpm
<b>Buffer size</b>	256 MB (10 TB), 128 MB (4 TB-8 TB)
<b>Data transfer speed</b>	248 MB/s (10 TB), 241 MB/s (6 TB, 8 TB), 204 MB/s (4 TB)
<b>Average latency</b>	4.17 ms
<b>Native Command Queing (NCQ)</b>	Supported

## Reliability

<b>Workloads</b>	180 TB/year
<b>MTTF</b>	1,000,000 hours
<b>Unrecoverable error rate</b>	1 per 10E14 bits read

<b>24/7 operation</b>	Yes
<b>Limited warranty</b>	3 years

## Power Management

<b>Supply voltage</b>	5VDC (±5%) / 12VDC (±10%)
<b>Consumption - Read/Write</b>	9.48 W typ. (10 TB), 9.2 W typ. (8 TB), 10.1 W typ. (6 TB), 9.6 W typ. (4 TB)
<b>Consumption - Low Power Idle</b>	7.15 W typ (10 TB), 6.2 W typ. (8 TB), 6.7 W typ. (6 TB), 5.2 W typ. (4 TB)

## Environmental

<b>Temperature (operating / non-operating)</b>	0 to 65° C / -40 to 70 °C
<b>Vibration (operating)</b>	0.75 G (5 tot 300 Hz) 0.25 G (300 tot 500 Hz) or less
<b>Vibration (non-operating)</b>	3 G (5 tot 500Hz) (10 TB), 5 G (5 tot 500Hz) or less (4 TB - 8 TB)
<b>Shock (operating)</b>	70 G / 2 ms duration
<b>Shock (non-operating)</b>	250 G / 2 ms duration
<b>Acoustics (idle mode)</b>	34 dB typ. (10 TB), 33 dB typ. (6 TB, 8 TB), 30 dB typ. (4 TB)
<b>Acoustics (seek mode)</b>	35 dB typ. (6 TB, 8 TB), 34 dB typ. (4 TB)

## Physical

<b>Dimensions</b>	147 (L) x 101.85 (W) x 26.1 (H) mm
<b>Weight (approx.)</b>	770 g max. (6 TB - 10 TB), 720 g max. (4 TB)

## Box Content

<b>Box Content</b>	• 3.5-inch internal hard drive - N300 NAS Hard Drive
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# Product Range

Part number	Capacity	Color
HDWG11AEZSTA (Retail)	10 TB	-
HDWG11AUZSVA (Bulk)	10 TB	-
HDWN180EZSTA (Retail)	8 TB	-
HDWN180UZSVA (Bulk)	8 TB	-
HDWN160EZSTA (Retail)	6 TB	-
HDWN160UZSVA (Bulk)	6 TB	-
HDWQ140EZSTA (Retail)	4 TB	-
HDWQ140UZSVA (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
Carton weight (gross)	17 kg (typ.), 16 kg (typ.) (4TB)
Units per pallet	600 pcs.

## Contact

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