

TOSHIBA



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N300 NAS Hard Drives



Built for 24/7 reliability

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 18 TB.

Use for

- NAS and Multimedia Server
- Desktop RAID and Server
- Private Cloud Storage
- Small Business Server and Storage

Top Features

- SATA** 3.5" SATA Hard Drive
- RPM** 7,200 rpm
-  512 MB buffer (18 | 16 | 14 TB)
256 MB buffer (14 | 12 | 10 | 8 | 6 | 4 TB)
-  High reliability and enhanced real-time performance
- 24/7** 24/7 operation

Capacities

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



N300

 NAS Hard Drives

	18 TB	16 TB	14 TB	14 TB	14 TB	12 TB	10 TB	8 TB	6 TB	4 TB
Retail Number	-	-	HDWG51EEZSTA	HDWG31EEZSTA	HDWG21EEZSTA	HDWG21CEZSTA	HDWG11AEZSTA	HDWG480EZSTA	HDWG460EZSTA	HDWG440EZSTA
Bulk Number	HDWG51JUZSVA	HDWG31GUZSVA	-	HDWG31EUZSVA	HDWG21EUZSVA	HDWG21CUZSVA	HDWG11AUZSVA	HDWG480UZSVA	HDWG460UZSVA	HDWG440UZSVA

Basic Specifications

Form factor	3.5-inch									
Interface	SATA 6.0 Gbit/s									
Recording Technology	CMR									
Drive bays supported	up to 8									
Rotational Vibration (RV) Sensors	yes									
Shock Sensor	yes									
Advanced Format (AF)	yes									
RoHS compatible	yes									
Halogen free	yes									

Performance

Rotational speed (rpm)	7,200									
Max. data transfer speed (sustained MB/s Typ.)	281	274	281	260	253	248	260	250	232	
Buffer size (MB)	512					256				
Average latency (ms)	4.17									

Reliability

Workloads (TB/year)	180									
MTTF (hours)	1,200,000					1,000,000				
Unrecoverable error rate	1 per 10 ¹⁴					1 per 10 ¹⁵				
24 x 7 operation	yes									
Limited warranty (years)	3									

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %				5 V DC ±5 % 12 V DC ±10 %		5VDC+10%/-5% 12 V DC ±10 %		5 V DC ±5 % 12 V DC ±10 %	
Consumption (operating)	7.48 W typ.	6.91 W typ.	7.38 W typ.	6.91 W typ.	6.77 W typ.	6.49 W typ.	9.48 W typ.	8.41 W typ.	7.72 W typ.	6.84 W typ.
Consumption (active idle)	4.14 W typ.	4.03 W typ.	3.77 W typ.	4.03 W typ.	4.54 W typ.	4.28 W typ.	7.22 W typ.	5.61 W typ.	4.93 W typ.	4.04 W typ.

Environmental

Temperature (operating/ non-operating)	5 to 60 °C -40 to 70 °C	0 to 65 °C -40 to 70 °C	5 to 60 °C -40 to 70 °C	0 to 65 °C -40 to 70 °C	5 to 60 °C -40 to 70 °C	0 to 65 °C -40 to 70 °C	5 to 65 °C -40 to 70 °C	
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)						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)	
Vibration (non-operating)	29.4 m/s ² (3.0 G) (5 to 500 Hz)							
Shock (operating)	686 m/s ² (70 G) (2 ms duration)							
Shock (non-operating)	2,450 m/s ² (250 G) (2 ms duration)							
Acoustics (idle mode)	20 dB typ.				34 dB typ.		31 dB typ.	

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H)									
Weight	720 g	705 g	720 g	770 g	720 g	700 g	693 g			