

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 22 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
-  High reliability and enhanced real-time performance
- 24/7** 24/7 operation

Capacities

22 TB	20 TB	18 TB	16 TB	14 TB
12 TB	10 TB	8 TB	6 TB	4 TB



N300

 NAS Hard Drives

	22 TB	20 TB	18 TB	16 TB	14 TB	12 TB
Retail Number	–	–	–	–	HDWG51EEZSTA	HDWG51CEZSTA
Bulk Number	HDWG62CUZSVA	HDWG62AUZSVA	HDWG51JUZSVA	HDWG51GUZSVA	HDWG51EUZSVA	HDWG51CUZSVA

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
Buffer size (MB)	512

Reliability

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

Power Management

Supply voltage	5 VDC +10 %/-7 % 12 VDC ±10 %				
Consumption (operating)	8.02 W typ.	8.02 W typ.	7.48 W typ.	7.38 W typ.	6.85 W typ.
Consumption (active idle)	4.35 W typ.	4.41 W typ.	4.14 W typ.	3.77 W typ.	3.30 W typ.

Environmental

Temperature (operating/ non-operating)	5 to 60 °C -40 to 70 °C		
Vibration (operating)	7.35 m/s2 (0.75 G) (5 to 300 Hz) 2.45 m/s2 (0.25 G)(300 to 500 Hz)		
Vibration (non-operating)	29.4 m/s2 {3.0 G} (5 to 500 Hz)		
Shock (operating)	490 m/s2 {50 G} (2 ms duration)	686 m/s2 {70 G} (2 ms duration)	
Shock (non-operating)	1,960 m/s2 {200 G} (2 ms duration)	2,450 m/s2 {250 G} (2 ms duration)	
Acoustics (idle mode)	20 dB typ.		

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm		
Weight	720 g	705 g	690 g

NAS Hard Drives

	10 TB	8 TB	6 TB	4 TB
Retail Number	HDWG71AEZSTA	HDWG780EZSTA	HDWG760EZSTA	HDWG740EZSTC
Bulk Number	MN10ADA10TS	MN10ADA800S	MN10ADA600S	MN10ADA400ES
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			
Buffer size (MB)	512			
Reliability				
Workloads (TB/year)	180			
MTTF (hours)	1,000,000			
Unrecoverable error rate	1 per 10^15			
24 x 7 operation	yes			
Limited warranty (years)	3			
Power Management				
Supply voltage	5 VDC +10 / -7 % 12 V DC ±10 %			
Consumption (operating)	9.07 W typ.	8.19 W typ.	7.43 W typ.	6.75 W typ.
Consumption (active idle)	5.74 W typ.	4.92 W typ.	4.14 W typ.	3.49 W typ.
Environmental				
Temperature (operating/ non-operating)	5 to 60 °C -40 to 70 °C			
Vibration (operating)	7.35 m/s2 {0.75 G} (5 to 300 Hz) 2.45 m/s2 {0.25 G} (300 to 500 Hz)			
Vibration (non-operating)	29.4 m/s2 {3.0 G} (5 to 500 Hz)			
Shock (operating)	686 m/s2 {70 G} (2 ms duration)			
Shock (non-operating)	2,450 m/s2 {250 G} (2 ms duration)			
Acoustics (idle mode)	34 dB typ.			
Physical				
Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm			
Weight	755 g	730 g	710 g	690 g

N300

 NAS Hard Drives

	22 TB	20 TB	18 TB	16 TB	14 TB	12 TB
Retail Number	–	–	–	–	HDWG51EEZSTA	HDWG51CEZSTA
Bulk Number	HDWG62CUZSVA	HDWG62AUZSVA	HDWG51JUZSVA	HDWG51GUZSVA	HDWG51EUZSVA	HDWG51CUZSVA

Logistic Information (Retail Packaging)

Box dimensions	–	–	–	–	136 (L) x 60 (W) x 189 (H) mm	
Master Carton dimensions	–	–	–	–	265 (L) x 150 (W) x 210 (H) mm	
Master Carton Weight	–	–	–	–	4 kg	3 kg
Box per master carton	–	–	–	–	4 pcs	
Units per Pallet	–	–	–	–	480 pcs	
Pallet dimensions	–	–	–	–	1,120 (L) x 1,060 (W) x 1,200 (H) mm	
Pallet quantity per layer	–	–	–	–	96 pcs	
Number of Layer	–	–	–	–	5 layer	
Pallet weight	–	–	–	–	448 kg	441 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs				
Master Carton size	476 (L) x 285 (W) x 228 (H) mm		500 (L) x 310 (W) x 228 (H) mm		
Master Carton Weight	16 kg			15 kg	
Pallet quantity per layer	120 pcs				
Number of Layer	5 layer				
Pallet quantity	600 pcs				
Pallet size	880 (L) x 990 (W) x 1,272 (H) mm		1,050 (L) x 970 (W) x 1,272 (H) mm		
Pallet Weight	473 kg		478 kg	469 kg	460 kg
Country of Origin	Philippines				

	10 TB	8 TB	6 TB	4 TB
Retail Number	HDWG71AEZSTA	HDWG780EZSTA	HDWG760EZSTA	HDWG740EZSTC
Bulk Number	MN10ADA10TS	MN10ADA800S	MN10ADA600S	MN10ADA400ES

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm			
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm			
Master Carton Weight	4 kg			3 kg
Box per master carton	4 pcs			
Units per Pallet	480 pcs			
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm			
Pallet quantity per layer	96 pcs			
Number of Layer	5 layer			
Pallet weight	472 kg	460 kg	451 kg	441 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs		
Master Carton size	410 (L) x 308 (W) x 228 (H) mm		
Master Carton Weight	17 kg	16 kg	15 kg
Pallet quantity per layer	120 pcs		
Number of Layer	5 layer		
Pallet quantity	600 pcs		
Pallet size	870 (L) x 970 (W) x 1,272 (H) mm		
Pallet Weight	510 kg	495 kg	483 kg
Country of Origin	Philippines		