

# 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 (22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 TB)  
256 MB buffer (8 | 6 | 4 TB)
-  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 <sup>15</sup>	1 per 10 <sup>14</sup>
24 x 7 operation	yes	
Limited warranty (years)	3	

### Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±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/s <sup>2</sup> (0.75 G) (5 to 300 Hz) 2.45 m/s <sup>2</sup> (0.25 G) (300 to 500 Hz)				
Vibration (non-operating)	29.4 m/s <sup>2</sup> (3.0 G) (5 to 500 Hz)				
Shock (operating)	490 m/s <sup>2</sup> (50 G) (2 ms duration)		686 m/s <sup>2</sup> (70 G) (2 ms duration)		
Shock (non-operating)	1,960 m/s <sup>2</sup> (200 G) (2 ms duration)		2,450 m/s <sup>2</sup> (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

## N300

 NAS Hard Drives

	10 TB	8 TB	8 TB	6 TB	6 TB	4 TB	4 TB
Retail Number	HDWG71AEZSTA	HDWG780EZSTA	-	HDWG760EZSTA	-	HDWG740EZSTC	-
Bulk Number	MN10ADA10TS	-	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		260	281	250	281	232
Buffer size (MB)	512		256	512	256	512	256

### Reliability

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

### Power Management

Supply voltage	5 VDC +10 / -7 % 12 VDC ±10 %		5 VDC ±5 % 12 VDC ±10 %	5 VDC +10 / -7 % 12 VDC ±10 %	5 VDC ±5 % 12 VDC ±10 %	5 VDC +10 / -7 % 12 VDC ±10 %	5 VDC ±5 % 12 VDC ±10 %
Consumption (operating)	9.07 W typ.	8.19 W typ.	8.41 W typ.	7.43 W typ.	7.72 W typ.	6.75 W typ.	6.84 W typ.
Consumption (active idle)	5.74 W typ.	4.92 W typ.	5.61 W typ.	4.14 W typ.	4.93 W typ.	3.49 W typ.	4.04 W typ.

### Environmental

Temperature (operating/ non-operating)	5 to 60 °C -40 to 70 °C		5 to 65 °C -40 to 70 °C	5 to 60 °C -40 to 70 °C	5 to 65 °C -40 to 70 °C	5 to 60 °C -40 to 70 °C	5 to 65 °C -40 to 70 °C
Vibration (operating)	7.35 m/s <sup>2</sup> {0.75 G} (5 to 300 Hz) 2.45 m/s <sup>2</sup> {0.25 G} (300 to 500 Hz)		7.35 m/s <sup>2</sup> {0.75 G} (2 to 300 Hz) 4.90 m/s <sup>2</sup> {0.50 G} (300 to 350 Hz) 2.45 m/s <sup>2</sup> {0.25 G} (300 to 500 Hz)	7.35 m/s <sup>2</sup> {0.75 G} (5 to 300 Hz) 2.45 m/s <sup>2</sup> {0.25 G} (300 to 500 Hz)	7.35 m/s <sup>2</sup> {0.75 G} (2 to 300 Hz) 4.90 m/s <sup>2</sup> {0.50 G} (300 to 350 Hz) 2.45 m/s <sup>2</sup> {0.25 G} (300 to 500 Hz)	7.35 m/s <sup>2</sup> {0.75 G} (5 to 300 Hz) 2.45 m/s <sup>2</sup> {0.25 G} (300 to 500 Hz)	7.35 m/s <sup>2</sup> {0.75 G} (2 to 300 Hz) 4.90 m/s <sup>2</sup> {0.50 G} (300 to 350 Hz) 2.45 m/s <sup>2</sup> {0.25 G} (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s <sup>2</sup> {3.0 G} (5 to 500 Hz)						
Shock (operating)	686 m/s <sup>2</sup> {70 G} (2 ms duration)						
Shock (non-operating)	2,450 m/s <sup>2</sup> {250 G} (2 ms duration)						
Acoustics (idle mode)	34 dB typ.		31 dB typ.	34 dB typ.	31 dB typ.	34 dB typ.	31 dB typ.

### Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm						
Weight	755 g	730 g	720 g	710 g	700 g	690 g	693 g

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	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	8 TB	6 TB	6 TB	4 TB	4 TB
Retail Number	HDWG71AEZSTA	HDWG780EZSTA	-	HDWG760EZSTA	-	HDWG740EZSTC	-
Bulk Number	MN10ADA10TS	-	HDWG480UZSVA	-	HDWG460UZSVA	-	HDWG440UZSVA

### 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	455 kg	451 kg	446 kg	441 kg	442 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	16 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	477 kg	483 kg	477 kg	471 kg	473 kg
Country of Origin	Philippines						