

TOSHIBA



Reliable Storage for NAS File and Object Storage

High capacity NAS HDDs for SOHO and branch-office use that provide 24/365 operational reliability in a range of capacities that allow you grow storage capacities with increasing data and business needs. These devices are well designed for file sharing and as file and object storage for data backup and content archives.



NAS
Internal Hard Drive

 **N300 Series**

•Definition of capacity: Toshiba defines a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary. •A mebibyte (MiB) means 2²⁰ or 1,048,576 bytes. •MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF. •Read and write speed may vary depending on the host device, read and write conditions, and file size. •“3.5-inch” means the form factor of HDDs. They do not indicate drive’s physical size. •Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system. • Availability of retail box sales are subject to each country’s operations.

•Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for. Product images used do not represent actual products.

Multi-Capacity Lineup


With a wide selection of capacities from 4TB to 18TB, you can choose the best capacity to suit your business or other needs.

Durability And Reliability

With a durability that can handle an annual workload of 180TB and a reliability that offers an MTTF of a million hours, this series is designed for 24/365 continuous operation.

High Density Storage Expansion

Thanks to the inclusion of RV sensor (rotational vibration sensor), these HDDs make stable operation possible for multi-disk platforms of up to 8 HDDs in a single enclosure.

Authorized Distributor by :
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N300 Hard Disk Drive

Application

- Home and SMB (Small and Medium Business) NAS
- SMB File and Object Storage
- Archiving and Data Back-up
- Private Cloud Storage

Specifications

Formatted Capacity	18TB	16TB	14TB	12TB	
Model Number	HDWG51JUZSVA	HDWG31GUZSVA	HDWG21EUZSVA	HDWG21CUZSVA	
Specification					
Mechanical Design	Helium-Sealed				
Interface	SATA 6 Gbit/s				
Form Factor	3.5-inch (Height:26.1 mm, Length:147.0 mm, Wide:101.85 mm)				
Maximum Weight	720 g				
Performance					
Recording Technology	CMR (Conventional Magnetic Recording)				
Rotation Speed	7,200 rpm				
Drive Bay Supported	Up to 8				
Rotation Vibration (RV) Sensor	Supported				
Maximum Sustained Data	281 MiB/s	262 MiB/s	248 MiB/s	242 MiB/s	
Buffer Size	512 MiB		256 MiB		
Reliability					
MTTF	1,200,000 hours		1,000,000 hours		
24/7 Operation	Supported				
Workload Rating	180 TB Transferred per Year				
Power Requirements					
Power Consumption	Active Idle	4.14 W	4.03 W	4.54 W	4.28 W
Environmental Requirements					
Temperature	Operating	0 to 65 °C		5 to 60 °C	
	Non-Operating	-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)			
	Non-Operating	29.4 m/s ² { 3.0 G } (5 to 500 Hz)			
Shock	Non-Operating	2,450 m/s ² { 250 G } (2 ms duration)			
Acoustic	Active Idle	20 db			

Limited Warranty: 3 years

Formatted Capacity	8TB	6TB	4TB	10TB	8TB	6TB	4TB	
Model Number	HDWG480UZSVA	HDWG460UZSVA	HDWG440UZSVA	HDWG11AUZSVA	HDWG180UZSVA	HDWG160UZSVA	HDWQ140UZSVA	
Specification								
Mechanical Design	Conventional Air							
Interface	SATA 6 Gbit/s							
Form Factor	3.5-inch (Height:26.1 mm, Length:147.0 mm, Wide:101.85 mm)							
Maximum Weight	720 g	700 g	693 g	770 g		720 g		
Performance								
Recording Technology	CMR (Conventional Magnetic Recording)							
Rotation Speed	7,200 rpm							
Drive Bay Supported	Up to 8							
Rotation Vibration (RV) Sensor	Supported							
Maximum Sustained Data	248 MiB/s	239 MiB/s	243 MiB/s	237 MiB/s	230 MiB/s	195 MiB/s		
Buffer Size	256 MiB						128 MiB	
Reliability								
MTTF	1,000,000 hours							
24/7 Operation	Supported							
Workload Rating	180 TB Transferred per Year							
Power Requirements								
Power Consumption	Active Idle	5.61 W	4.93 W	4.04 W	7.15W	6.33 W	5.59 W	5.2 W
Environmental Requirements								
Temperature	Operating	5 to 65 °C			0 to 65 °C			
	Non-Operating	-40 to 70 °C						
Vibration	Operating	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)			7.35 m/s ² { 0.75 G } (5 to 300 Hz) 2.45 m/s ² { 0.25 G } (300 to 500 Hz)			
	Non-Operating	29.4 m/s ² { 3.0 G } (5 to 300 Hz)			29.4 m/s ² { 3.0 G } (5 to 300 Hz) 49 m/s ² { 5.0 G } (5 to 500 Hz)			
Shock	Non-Operating	2,450 m/s ² { 250 G } (2 ms duration)						
Acoustic	Active Idle	31 dB			34 dB			

Limited Warranty: 3 years