

•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

Limited Warranty: 3 years

Toshiba Electronics Asia (Singapore) Pte Ltd

www.toshiba-storage.asia

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TOSHIBA



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





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.

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

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Formatted Capacity		18 TB	16 TB	14 TB	14 TB	12 TB		
Model Number	Bulk	HDWG51JUZSVA (MN09ACA18T)	HDWG31GUZSVA (MN08ACA16T)	-	HDWG21EUZSVA (MN07ACA14T)	HDWG21CUZSVA (MN07ACA12T)		
	Retail	HDWG51JAZSTA	HDWG31GAZSTA	HDWG51EAZSTA	-	HDWG21CAZSTA		
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		705 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		281 MiB/s	274 MiB/s	281 MiB	260 MiB/s	253 MiB/s		
Buffer Size		512 MiB 256 MiB				MiB		
Reliability								
MTTF		1,200,000 hours 1,0				00 hours		
24/7 Operation		Supported						
Workload Rati	ng		18	0 TB Transferred per Y	ear			
Power Requir	ements							
Supply Voltage		5 VDC +10 % / -7 % 12 VDC ±10 %			5 VDC ±5 % 12 VDC ±10 %			
Power Consumption	Operating	7.48 W	6.91 W	7.38 W	6.77 W	6.49 W		
	Active Idle	4.14 W	4.03 W	3.77 W	4.54 W	4.28 W		
Environmenta	al Requirements							
Temperature	Operating	5 to 60 °C	0 to 65 °C		5 to 60 °C			
	Non-Operating	-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)						
	Non-Operating	29.4 m/s² { 3.0 G } (5 to 500 Hz)						
Shock	Operating	686 { 70 G } (2 ms duration)						
	Non-Operating	2,450 m/s² { 250 G } (2 ms duration)						
Acoustic	Active Idle	20 db						

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Formatted Capacity		10 TB	8 TB	6 TB	4 TB			
Model Number	Bulk	HDWG11AUZSVA (MN06ACA10T)	HDWG480UZSVA (MN08ADA800)	HDWG460UZSVA (MN08ADA600)	HDWG440UZSVA (MN08ADA400E)			
	Retail	HDWG11AAZSTA	HDWG480AZSTA	HDWG460AZSTA	HDWG440AZSTA			
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		770 g	700	693 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	260 MiB/s	250 MiB/s	232 MiB/s			
Buffer Size			256	MiB				
Reliability								
MTTF		1,000,000 hours						
24/7 Operation		Supported						
Workload Rating		180 TB Transferred per Year						
Power Require	ements							
Supply Voltage		5 VDC +10 % / -5 % 12 VDC ±10 %	5 VDC ±5 % 12 VDC ±10 %					
Power	Operating	9.48 W	8.41 W	7.72 W	6.84 W			
Consumption	Active Idle	7.22 W	5.61 W	4.93 W	4.04 W			
Environmenta	l Requirements							
Temperature	Operating	0 to 65 °C		5 to 65 °C				
	Non-Operating	-40 to 70 °C						
Vibration	Operating	7.35 m/s ² {0.75 G} (5 to 300 Hz) 7.35 m/s ² {0.75 G} (2 to 300 Hz) 4.90 m/s ² {0.50 G} (300 to 350 2.45 m/s ² {0.25 G} (300 to 500 Hz) 2.45 m/s ² {0.25 G} (350 to 500 Hz)						
	Non-Operating	29.4 m/s² { 3.0 G } (5 to 300 Hz)						
Shock	Operating	686 m/s² { 70 G } (2 ms duration)						
	Non-Operating	2,450 m/s²{ 250 G } (2 ms duration)						
Acoustic Active Idle		34 dB 31 dB						