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## 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		<b>8</b> TB	<b>6</b> TB	<b>4</b> TB	<b>10</b> TB	<b>8</b> TB	<b>6</b> TB	<b>4</b> TB
Model Number	Bulk	HDWG480UZSVA (MN08ADA800)	HDWG460UZSVA (MN08ADA600)	HDWG440UZSVA (MN08ADA400E)	HDWG11AUZSVA (MN06ACA10T)	HDWG180UZSVA (MN06ACA800)	HDWG160UZSVA (MN06ACA600)	HDWQ140UZSV (MN04ACA400
	Retail	HDWG480AZSTA	HDWG460AZSTA	HDWG440AZSTA	HDWG11AAZSTA	HDWG180AZSTA	HDWG160AZSTA	HDWQ140AZST
Product Series		MN series						
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 Require	ements							
Power Consumption	Active Idle	5.61 W	4.93 W	4.04 W	7.15W	6.33 W	5.59 W	5.2 W
Environmenta	l Requirements							
Temperature	Operating	5 to 65 °C			0 to 65 °C			
	Non-Operating	-40 to 70 °C						
Vibration	Operating	7.35 m/ 4.90 m/s 2.45 m/s	s2 {0.75 G} (2 to 2 {0.50 G} (300 to 2 {0.25 G} (350 t	300 Hz) 5 350 Hz) 6 500 Hz	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/s <sup>2</sup> { 3.0 G } ( 5 to 300 Hz )			29.4 m/s² { 3.0 G } ( 5 to 300 Hz ) 49 m/s² { 5.0 G } ( 5 to 500 Hz )			
Shock	Non-Operating	2,450 m/s			<sup>2</sup> { 250 G } ( 2 ms duration )			
Acoustic Active Idle		31 dB			34 dB			

Limited Warranty: 3 years