



WD Xe™

Datacenter Hard Drives

Protect your investment by upgrading to the latest Enterprise performance storage technology from WD. WD Xe drives deliver 50% higher capacity, higher reliability and up to 67% lower power consumption versus 3.5-inch 15,000 RPM drives.



INTERFACE

SAS 6 Gb/s

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

10,000 RPM

CAPACITIES

300, 450, 600 and 900 GB

MODEL NUMBERS

WD9001HKHG WD4501HKHG
WD6001HKHG WD3001HKHG

Note: Not all products may be available in all regions of the world.

Product Benefits

Ultra-fast SAS storage

WD Xe delivers 6 Gb/s transfer rates, sustained sequential data rates up to 204 MB/s, and a fast average read seek time of 3.6 ms.

Industry's highest reliability rating

2 million hours MTBF.

Low power consumption

The 3.5-inch SAS drive delivers up to 67% lower power versus 3.5-inch 15,000 RPM drives, which can result in substantially lower total cost of ownership (TCO) while increasing capacity and reliability.

Dual port, full duplex connectivity

Offers higher reliability, performance and data availability by eliminating single points of failure, designed for high-availability mission-critical enterprise systems.

3.5-inch performance adapter

WD Xe comes pre-mounted in a 3.5-inch performance adapter, providing easy installation into legacy 3.5-inch server and storage system slots, while optimizing the drive's thermal management efficiency.

Rotary Acceleration Feed Forward (RAFF™)

Optimizes operation and performance when the drives are used in vibration-prone, multi-drive chassis.

NoTouch™ ramp load technology

The recording head never touches the disk media ensuring significantly less wear to the recording head and media as well as better drive protection in transit.

Environmentally conscious

In addition to being ROHS compliant, these drives are built with halogen reduced components.

5-year limited warranty

Applications

- **Performance servers** – All I/O-driven applications and configurations
- **Performance storage** – Data centers and NAS arrays



WD Xe

Specifications	900 GB	600 GB	450 GB	300 GB
Model number	WD9001HKHG	WD6001HKHG	WD4501HKHG	WD3001HKHG
Interface	SAS 6 Gb/s	SAS 6 Gb/s	SAS 6 Gb/s	SAS 6 Gb/s
Formatted capacity ¹	900 GB	600 GB	450 GB	300 GB
User sectors per drive	1,758,174,768	1,172,123,568	879,097,968	586,072,368
SCSI command queuing	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant ²	Yes	Yes	Yes	Yes
Performance				
Data transfer rate (max)				
Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Host to/from drive (sustained)	204 MB/s	204 MB/s	204 MB/s	204 MB/s
Cache (MB)	32	32	32	32
Rotational speed (RPM)	10,000	10,000	10,000	10,000
Average drive ready time (sec)	13	13	13	13
Reliability/Data Integrity				
Load/unload cycles ³	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<10 in 10 ¹⁷	<10 in 10 ¹⁷	<10 in 10 ¹⁷	<10 in 10 ¹⁷
MTBF (hours) ⁴	2,000,000	2,000,000	2,000,000	2,000,000
Limited warranty (years) ⁵	5	5	5	5
Power Management				
12VDC (A, max)	1.450	1.450	1.450	1.450
Average power requirements (W)				
Sequential read	7.0	7.0	7.0	7.0
Sequential write	5.3	5.3	5.3	5.3
Random read/write	6.4	6.4	6.4	6.4
Idle	5.2	5.2	5.2	5.2
Environmental Specifications ⁶				
Temperature (°C)				
Operating	5 to 55	5 to 55	5 to 55	5 to 55
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)				
Operating (2 ms, read/write)	30	30	30	30
Operating (2 ms, read)	65	65	65	65
Non-operating (2 ms)	300	300	300	300
Acoustics (dBA) ⁷				
Idle	30	30	30	30
Seek (average)	40	40	40	40
Physical Dimensions				
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	1.10/0.49	1.10/0.49	1.10/0.49	1.10/0.49

¹ As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SAS 6 Gb/s transfer rate calculated according to the SAS specification published by the INCITS T10 organization as of the date of this specification sheet. Visit www.t10.org for details.

² WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

³ Controlled unload at ambient condition.

⁴ 100% workload at 50°C on base casting.

⁵ The term of the limited warranty may vary by region. Visit <http://support.wd.com/warranty> for details.

⁶ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Sound power level.

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