Designed specifically with SMB customers in mind, WD Red Pro is available for up to 24 bay medium to large-scale 24×7 NAS environments. Engineered to handle increased workloads from your business, WD Red Pro is extensively tested and carries a long 5-year limited warranty.

NAS for Big Business

Increase the efficiency and productivity of your business with WD Red Pro hard drives for up to 24 bay NAS systems. WD Red Pro comes equipped with NASware™ 3.0, which increases system compatibility allowing for seamless integration with your existing network infrastructure. Add value to your business by enabling your employees to quickly share their files and back up folders reliably with WD Red Pro NAS hard drives in your NAS solution.

Exclusive NASware 3.0 technology

Our exclusive advanced firmware technology, NASware 3.0 enables seamless integration, robust data protection and optimal performance for NAS systems operating under heavy demand.

Built for optimum NAS compatibility

Desktop drives aren't purpose-built for NAS. But WD Red Pro drives with NASware 3.0 technology are purpose-built for NAS. Our exclusive technology takes the guesswork out of selecting a drive and balances performance and reliability in NAS and RAID environments. Simply put, a WD Red Pro drive is one of the most compatible drives available for medium to large NAS enclosures. But don't take our word for it. WD Red Pro drives are a reflection of an extensive NAS partner technology engagement and compatibility-testing resulting in a leading compatibility list for NAS systems.

Larger NAS Bay Shock Protection

In a Network Attached Storage device, a desktop hard drive is not typically designed for NAS environments. WD Red Pro drives are equipped with a multi-axis shock sensor that automatically detects subtle shock events and dynamic fly height technology which adjusts each read-write function to compensate and protect the data. This combination of technology further protects the drives in larger 1 to 24 bay NAS environments and helps increase hard drive reliability.

Highlights

- Available in large capacities with support for 1–24 bays
- 5-year limited warranty
- Enhanced reliability with 3D Active Balance Plus technology and error recovery controls with NASware 3.0 technology
- Extended drive testing to ensure each drive is tested for extended reliable operation
- Vibration & Shock protection

INTERFACE	PERFORMANCE CLASS
SATA 6 Gb/s	7200 RPM Class
FORM FACTOR	**CAPACITIES**
3.5-inch	2TB to 10TB

MODELS

WD101KFBX	WD4003FFBX
WD8001FFWX	WD2002FFSX
WD6003FFBX	

THE WESTERN DIGITAL ADVANTAGE

Western Digital puts our products through extensive Functional Integrity Testing (F.I.T.) prior to any product launch. This testing ensures our products consistently meet the quality and reliability standards of the Western Digital brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.

Specifications

Model Number[1]	10TB	8TB	8TB	6TB	4TB	2TB
	WD101KFBX	WD8003FFBX	WD8001FFWX	WD6003FFBX	WD4003FFBX	WD2002FFSX
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[2]	10TB	8TB	8TB	6TB	4TB	2TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Native command queuing	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes	Yes

Performance

	10TB	8TB	8TB	6TB	4TB	2TB
Interface Transfer Rate (max) Interface Speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Interface Transfer Rate[2] (max) Internal Transfer Rate	240 MB/s	235 MB/s	205 MB/s	238 MB/s	217 MB/s	164 MB/s
Cache (MB)[2]	256	256	128	256	256	64
Performance Class	7200 RPM Class	7200 RPM Class	5400 RPM Class	7200 RPM Class	7200 RPM Class	7200 RPM Class

Reliability/Data Integrity

	10TB	8TB	8TB	6TB	4TB	2TB
Load/unload cycles[4]	600,000	600,000	600,000	600,000	600,000	600,000
Non-recoverable errors per bits read	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}	<1 in 10^{14}
MTBF (hours)[5]	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Workload Rate (TB/year)[6]	300	300	300	300	300	300
Limited warranty (years)[7]	5	5	5	5	5	5

Power Management[8]

	10TB	8TB	8TB	6TB	4TB	2TB
12VDC ±10% (A, peak)	1.8	2.08	1.79	1.79	1.79	1.9
5VDC ±10% (A, peak) Average power requirements (W)						
Read/Write	5.7	8.8	8.3	7.2	7.2	7.8
Idle	2.8	4.6	5.2	3.7	3.7	6.0
Standby and Sleep	0.5	0.7	0.7	0.4	0.4	1.4

Environmental Specifications[9]

	10TB	8TB	8TB	6TB	4TB	2TB
Temperature (°C)						
Operating	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65	0 to 65
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)						
Operating, (2 ms, read/write)	30	30	30	30	30	30
Operating, (2 ms, read)	65	65	65	65	65	65
Non-operating (2 ms)	300	300	300	300	300	300
Acoustics (dBA)[10]						
Idle	2o	29	20	29	29	29
Seek (average)	29	36	36	36	36	31

Physical Dimensions

	10TB	8TB	8TB	6TB	4TB	2TB
Height (in./mm, max)	1.028/26.1	1.028/26.1	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	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6

Specifications subject to change without notice.

[1] Not all products may be available in all regions of the world

[2] 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 SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

[3] 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.

[4] Controlled unload at ambient condition.

[5] MTBF specifications are based upon internal testing using a 40ºC base casting temperature. MTBF is based on a sample population and is estimated by statistical measurements and acceleration algorithms. MTBF does not predict an individual drive's reliability and does not constitute a warranty..

[6] Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred X (8760 / recorded power-on hours)). Workload Rate will vary depending on your hardware and software components and configurations.

[7] See http://support.wd.com/warranty for regionally specific warranty details.

[8] Power measurements at room-ambient temperature.

[9] No non-recoverable errors during operating tests or after non-operating tests.

[10] Sound power level.

Western Digital.