



Designed specifically with SMB customers in mind, WD Red Pro drives are available for up to 24 bay medium to large-scale 24x7 NAS environments. Engineered to handle increased workloads from your business, WD Red Pro drives are extensively tested and carry a long 5-year limited warranty<sup>7</sup>.

## 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

- Capacity up to 14TB<sup>2</sup>
- Available in large capacities with support for 1–24 bays
- 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
- 5-year Limited Warranty

### INTERFACE

SATA 6 Gb/s

### PERFORMANCE CLASS

7200 RPM Class

### FORM FACTOR

3.5-inch

### CAPACITIES

2TB to 14TB

### MODEL NUMBERS

WDBRJY0140HNC-WRSN  
 WDBRJY0120HNC-WRSN  
 WDBRJY0100HNC-WRSN  
 WDBRJY0080HNC-WRSN  
 WDBRJY0060HNC-WRSN  
 WDBRJY0040HNC-WRSN  
 WDBRJY0020HNC-WRSN

## 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.

Western Digital 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 Western Digital Support site for additional details.

## Specifications

	14TB	12TB	10TB	8TB	6TB	4TB	2TB
<b>Model Number<sup>1</sup></b>	WDBRJY0140HNC-WRSN	WDBRJY0120HNC-WRSN	WDBRJY0100HNC-WRSN	WDBRJY0080HNC-WRSN	WDBRJY0060HNC-WRSN	WDBRJY0040HNC-WRSN	WDBRJY0020HNC-WRSN
Interface	SATA 6 Gb/s						
Formatted capacity <sup>2</sup>	14TB	12TB	10TB	8TB	6TB	4TB	2TB
Form factor	3.5-inch						
Native command queuing	Yes						
Advanced Format (AF)	Yes						
RoHS compliant <sup>3</sup>	Yes						
<b>Performance</b>							
Interface Transfer Rate (max) Interface Speed	6 Gb/s						
Interface Transfer Rate <sup>2</sup> (max) Internal Transfer Rate	255 MB/s	240 MB/s	240 MB/s	235 MB/s	238 MB/s	217 MB/s	164 MB/s
Cache (MB) <sup>2</sup>	512	256	256	256	256	256	64
Performance Class	7200 RPM Class	7200 RPM Class	7200 RPM Class	7200 RPM Class	7200 RPM Class	7200 RPM Class	7200 RPM Class
<b>Reliability/Data Integrity</b>							
Load/unload cycles <sup>4</sup>	600,000	600,000	600,000	600,000	600,000	600,000	600,000
Non-recoverable errors per bits read	<10 in 10 <sup>16</sup>						
MTBF (hours) <sup>5</sup>	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Workload Rate (TB/year) <sup>6</sup>	300	300	300	300	300	300	300
Limited warranty (years) <sup>7</sup>	5	5	5	5	5	5	5
<b>Power Management<sup>8</sup></b>							
12VDC ±5% (A, peak)	1.85	1.8	1.8	2.08	1.79	1.79	1.9
5VDC ±5% (A, peak)							
Average power requirements (W)							
Read/Write	6.2	6.0	5.7	8.8	7.2	7.2	7.8
Idle	3.0	2.8	2.8	4.6	3.7	3.7	6.0
Standby and Sleep	0.8	0.6	0.5	0.7	0.4	0.4	1.4
<b>Environmental Specifications<sup>9</sup></b>							
Temperature (°C)							
Operating	0 to 65						
Non-operating	-40 to 70						
Shock (Gs)							
Operating, (2 ms, read/write)	30	30	30	30	30	30	30
Operating, (2 ms, read)	65	65	65	65	65	65	65
Non-operating (2 ms)	300	300	300	300	300	300	300
Acoustics (dBA) <sup>10</sup>							
Idle	20	20	20	29	29	29	29
Seek (average)	36	36	36	36	36	36	31
<b>Physical Dimensions</b>							
Height (in./mm, max)	1.06 / 27.0	1.06 / 27.0	1.06 / 27.0	1.06 / 27.0	1.06 / 27.0	1.06 / 27.0	1.06 / 27.0
Length (in./mm, max)	5.79 / 147.0	5.79 / 147.0	5.79 / 147.0	5.79 / 147.0	5.79 / 147.0	5.79 / 147.0	5.79 / 147.0
Width (in./mm, ± .01 in.)	4.02 / 102.0	4.02 / 102.0	4.02 / 102.0	4.02 / 102.0	4.02 / 102.0	4.02 / 102.0	4.02 / 102.0
Weight (lb/kg, ± 10%)	1.52 / 0.69	1.46 / 0.66	1.43 / 0.65	1.59 / 0.72	1.58/0.72	1.59 / 0.72	1.41 / 0.64

Specifications subject to change without notice.

<sup>1</sup> Not all products may be available in all regions of the world

<sup>2</sup> 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. Performance will vary depending on your hardware and software components and configurations. 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](http://www.sata-io.org) for details.

<sup>3</sup> 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.

<sup>4</sup> Controlled unload at ambient condition.

<sup>5</sup> MTBF specifications are based upon internal testing using a 40°C 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.

<sup>6</sup> 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.

<sup>7</sup> See <http://support.wdc.com/warranty> for regionally specific warranty details.

<sup>8</sup> Power measurements at room-ambient temperature.

<sup>9</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>10</sup> Sound power level.

## Western Digital

5601 Great Oaks Parkway  
San Jose, CA 95119, USA  
US (Toll-Free): 800.275.4932  
International: 408.717.6000

[www.westerndigital.com](http://www.westerndigital.com)

© 2019 Western Digital Corporation or its affiliates. All rights reserved. Produced 4/18. Rev. 7/18. Western Digital, the Western Digital Logo, 3D Active Balance NASware and WD Red are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the U.S. and/or other countries. All other marks are the property of their respective owners. Pictures shown may vary from actual products. Product specifications subject to change without notice. Not all products are available in all regions of the world.

