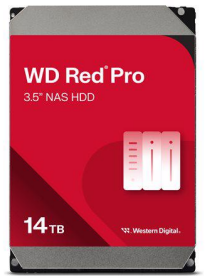
WD Red Pro WD142KFGX (WD142KFGX)

WD Red Pro WD142KFGX - Hard drive - 14 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB



Joining the original color of NAS, WD Red Pro continues the formula of success that has led the WD Red product family by adding support beyond consumer and small business markets into medium and large 8-16 bay business storage systems. WD Red Pro hard drives integrate WD's exclusive technology, NASware, to provide unparalleled support for drive compatibility, reliability, and performance.

Key Selling Points

Professional solutions
Exclusive NASware technology
Vibration protection
Enhanced accuracy for NAS
8 to 16 Bay Shock protection
Extended drive testing
Error recovery prevention

Product Features

Professional solutions
Designed specifically with SMB customers in mind the WD Red family has expanded with the addition of WD Red Pro, which is available for the 8 to 16 bay medium to large-scale NAS environments. With capacities up to 4 TB, WD Red Pro was engineered to handle the increased workloads from your business.

Exclusive NASware technology
The exclusive advanced firmware technology built into every WD Red Pro drive, NASware enables seamless integration, robust data protection and optimal performance for systems operating in the demanding NAS environment.

Experienced in NAS
WD Red is a reflection of the most extensive NAS partner compatibility testing list that is available on the market. That means when you buy a NAS enclosure, you can trust that WD Red will be the most compatible drive available.

Vibration protection
In combination with 3D Active Balance Plus, WD Red Pro also features hardware vibration compensation technology which monitors the drive to correct both linear and rotational vibration in real time, further increasing drive reliability.

Enhanced accuracy for NAS
For overall enhanced accuracy for NAS, WD Red Pro is also equipped with dual actuator technology which improves positional accuracy over the data tracks and head positioning. StableTrac technology then secures the motor shaft at both ends to reduce system-induced vibration and stabilize the drive platters for accurate tracking during read and write operations. Both technologies are important for larger 8 to 16 bay NAS environments.

8 to 16 Bay Shock protection
WD Red Pro is 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 large 8 to 16 bay NAS environments and increases drive reliability.

Extended drive testing
The 8 to 16 bay NAS environment is very demanding on a hard drive with added vibration, heat and other factors. This is why every WD Red Pro drive is shipped with extended thermal cycle burn-in testing which ensure each drive for extended reliable operation.

Error recovery prevention
Built specifically for RAID and NAS environments, WD Red Pro drives come equipped with error recovery controls as part of NASware, which prevents the drive from fallout in RAID applications.

Main specifications

Product Description	*WD Red Pro WD142KFGX - hard drive - 14 TB - SATA 6Gb/s*
Type	*Hard drive - internal*
Capacity	*14 TB*
Form Factor	*3.5"*
Interface	*SATA 6Gb/s*
Data Transfer Rate	*600 MBps*
Buffer Size	*512 MB*
Spindle Speed	*7200 rpm*

Features	*Advanced Format technology, Conventional magnetic recording (CMR), Native Command Queuing (NCQ), 3D Active Balance Plus, Multi-axis shock sensor, NASware 3.0 technology, Error Recovery Control, S.M.A.R.T.*
Dimensions (WxDxH)	*101.6 mm x 147 mm x 26.1 mm*
Weight	*690 g*
Manufacturer Warranty	*5-year warranty*

Extended specification

Environmental Parameters

Min Operating Temperature	*0 °C*
Max Operating Temperature	*65 °C*
Min Storage Temperature	*-40 °C*
Max Storage Temperature	*70 °C*
Shock Tolerance (operating)	*50 g @ 2 ms*
Shock Tolerance (non-operating)	*250 g @ 2 ms*
Sound Emission	*20 dBA*

General

Device Type	*Hard drive - internal*
Capacity	*14 TB*
Form Factor	*3.5"*
Interface	*SATA 6Gb/s*
Buffer Size	*512 MB*
Features	*Advanced Format technology, Conventional magnetic recording (CMR), Native Command Queuing (NCQ), 3D Active Balance Plus, Multi-axis shock sensor, NASware 3.0 technology, Error Recovery Control, S.M.A.R.T.*
Width	*101.6 mm*
Depth	*147 mm*
Height	*26.1 mm*
Weight	*690 g*

Performance

Drive Transfer Rate	*600 MBps (external)*
Internal Data Rate	*265 MBps*
Spindle Speed	*7200 rpm*

Manufacturer Warranty

Service & Support	*Limited warranty - 5 years*

Expansion & Connectivity

Interfaces	*1 x SATA 6 Gb/s*
Compatible Bay	*3.5"*

Reliability

MTBF	*2,500,000 hours*
24x7 Operation	*Yes*
Non-Recoverable Errors	*10 per 10^15*
Load / Unload Cycles	*600,000*

Miscellaneous

Compliant Standards	*RoHS*

Power

Power Consumption	*6.4 watt (read) ¦ 6.4 watt (write) ¦ 3.6 watt (idle) ¦ 0.9 watt (standby) ¦ 0.9 watt (sleep)*

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet