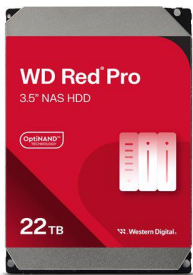


WD Red Pro WD221KFGX (WD221KFGX)

WD Red Pro WD221KFGX - Hard drive - 22 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 WD221KFGX - hard drive - 22 TB - SATA 6Gb/s
Type	Hard drive - internal
Capacity	22 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Buffer Size	512 MB
Spindle Speed	7200 rpm

Features	24x7 continuous operation, 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, OptiNAND technology
Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	670 g
Manufacturer Warranty	5-year warranty

Extended specification

General

Device Type	Hard drive - internal
Capacity	22 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Buffer Size	512 MB
Features	24x7 continuous operation, 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, OptiNAND technology
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	670 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	ROHS Directive 2011/65/EU, ROHS Directive 2015/863/EU
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Power

Power Consumption	6.8 watt (read/write) 3.4 watt (idle) 1.2 watt (standby) 1.2 watt (sleep)
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	65 °C
Shock Tolerance (operating)	40 g @ 2 ms
Shock Tolerance (non-operating)	200 g @ 2 ms
Sound Emission	20 dBA

Performance

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

Reliability

MTBF	1,000,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	10 per 10 ¹⁴
Load / Unload Cycles	600,000

Expansion & Connectivity

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

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