



3.5 HDD DATA SHEET The Power of Agility for Home, SOHO, and SMB NAS Enclosures



IronWolf[™] is designed for everything NAS. Get used to tough, ready, and scalable 24×7 performance that can handle multi-drive environments across a wide range of capacities.



Best-Fit Applications

- 1- to 8-bay network attached storage (NAS)
- Desktop RAID and servers
- Multimedia server storage
- Private cloud



Key Advantages

Optimised for NAS with AgileArray.[™] AgileArray enables dual-plane balancing and RAID optimisation in multi-bay environments, with the most advanced power management possible.

Actively protect your NAS with IronWolf Health Management focusing on prevention, intervention, and recovery.¹

High performance means no lag time or downtime for users during workload traffic for the NAS. Seagate leads the competition with the highest-performing NAS drive portfolio.²

Rotational Vibration (RV) sensors. First in its class of drives to include RV sensors to maintain high performance in multi-drive NAS enclosures.³

Range of capacities up to 16 TB. More capacity options means more choices that will fit within the budget. Seagate provides a scalable solution for any NAS use-case scenario.

Do more in multi-user environments. IronWolf provides a workload rate of 180 TB/year. Multiple users can confidently upload and download data to the NAS server, knowing IronWolf can handle the workload, whether you are a creative professionalor a small business.

Designed for always-on, always-accessible 24×7 performance. Access data on your NAS any time, remotely or on site.

1 M hours MTBF, 3-year limited warranty represents an improved total cost of ownership (TCO) over desktop drives with reduced maintenance costs.

Contact your Seagate sales representative for further information.
Performance may vary depending on user's hardware configuration and operating system
Included on 4, 6, 8, 10, 12, 14, and 16 TB models.





Specifications	16 TB	8 TB
Capacity	16 TB	8 TB
Standard Model Number	ST16000VN001	ST8000VN004
Interface	SATA 6Gb/s	SATA 6Gb/s
Features and Performance		
Drive Bays Supported	1 – 8 Bays	1 – 8 Bays
Multi-User Technology	180 TB/year	180 TB/year
Rotational Vibration (RV) Sensor	Yes	Yes
Dual-Plane Balance	Yes	Yes
Error Recovery Control	Yes	Yes
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	210MB/s
Spindle Speed (RPM)	7,200	7,200
Cache (MB)	256	256
Reliability		
Load/Unload Cycles	600,000	600,000
Non-recoverable Read Errors Rate, Max	1 per 10E15	1 per 10E15
Power-on Hours	8,760	8,760
Workload Rate Limit (WRL)	180	180
Mean Time Between Failures (MTBF, hours)	1,000,000	1,000,000
Limited Warranty (years)	3	3
Power Management		
Startup Current, Typical (12V, A)	1.8	1.8
Average Operating Power (W)	7.3 W	8.8 W
Idling Average (W)	5.3 W	7.6 W
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.6/0.6
Voltage Tolerance, Inc. Noise (5 V)	±5%	±5%
Voltage Tolerance, Inc. Noise (12 V)	±10%	±10%
Environmental/Temperature		
Operating (ambient, min °C)	5	5
Operating (drive case, max °C) ²	70	70
Non-operating (ambient, min °C)	-40	-40
Non-operating (ambient max °C)	70	70
Halogen-free	Yes	Yes
Environmental/Shock		
Shock, Operating/Non-operating: 2 ms (max)	50Gs/200Gs	70Gs/250Gs
Environmental/Acoustics		
Idle (typical) ³	2.8 bels	2.8 bels
Seek (typical)	3.0bels	3.2 bels
Physical		
Height (mm/in)	26.11 mm/1.028 in	26.11 mm/1.028 in
Width (mm/in, max)	101.85 mm/4.01 in	101.85 mm/4.01 in
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	670 g/1.477 lb	722 g/1.59 lb
Carton Unit Quantity	20	20
Cartons per Pallet / Cartons per Layer	40/8	40/8

1 Load/unload tested to 600,000 cycles.

2 Seagate does not recommend operating at sustained case temperatures above 60°C. Operating at higher temperatures will reduce useful life of the product.

3 Idle measured in Idle1 state.



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