



3.5 HDD DATA SHEET

The Power of Agility for Creative Pro and SME NAS Enclosures



IronWolf™ Pro is designed for everything business 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

- Commercial and enterprise network-attached storage (NAS)
- 1- to 24-bay network attached storage (NAS)
- Backup, archiving, and disaster recovery
- On-premise private cloud
- Virtual storage



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

Seagate® Rescue Data Recovery.³ IronWolf Pro comes with extra peace of mind for any mechanical, accidental, or natural disaster. With a 90% success rate of in-house recovery, Seagate has your back with a 2-year included Rescue Data Recovery plan.

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 14 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 300 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 professional or a small business.

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

1.2 M hours MTBF, 5-year limited warranty represents an improved total cost of ownership (TCO) over desktop drives with reduced maintenance costs.

¹ Contact your Seagate sales representative for further information.

² Performance may vary depending on user's hardware configuration and operating system.

³ Registration required to activate. Rescue recovery services not available in all countries. Contact your Seagate sales representative for further details.



Specifications	14 TB	12 TB	10 TB	8 TB	6 TB
Standard Model Number ¹	ST14000NE0008	ST12000NE0008	ST10000NE0008	ST8000NE0008	ST6000NE0023
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features					
Drive Bays Supported	Up to 24-bay	Up to 24-bay	Up to 24-bay	Up to 24-bay	Up to 24-bay
Multi-User Technology (TB/yr)	300	300	300	300	300
Rotational Vibration (RV) Sensors	Yes	Yes	Yes	Yes	Yes
Hot-Plug Support ²	Yes	Yes	Yes	Yes	Yes
Cache (MB)	256	256	256	256	256
Reliability/Data Integrity					
Mean Time Between Failures (MTBF, hours)	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Reliability Rating @ Full 24x7 Operation (AFR)	0.73%	0.73%	0.73%	0.73%	0.73%
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours per Year (24x7)	8,760	8,760	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E	512E	512E
Rescue Services ³	Yes	Yes	Yes	Yes	Yes
Limited Warranty (years)	5	5	5	5	5
Performance					
Spindle Speed (RPM)	7,200	7,200	7,200	7,200	7,200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	250MB/s	250MB/s	214MB/s	214MB/s	214MB/s
Average Latency (ms)	4.16	4.16	4.16	4.16	4.16
Interface Ports	Single	Single	Single	Single	Single
Rotational Vibration @ 10-1,500 Hz (rad/s ²)	12.5	12.5	12.5	12.5	12.5
Power Consumption					
Startup Current, Typical (12V, A)	2	2	2	2	2
Idle Power, Average (W)	5.3	5.0	5.0	4.4	7.5
Average Operating Power (W)	7.9 W	7.8 W	7.8 W	7.4 W	8.1 W
Standby Mode (W)	0.8	0.8	0.8	0.8	0.6
Sleep Mode (W)	0.8	0.8	0.8	0.8	0.6
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature					
Operating (ambient, min °C)	5	5	5	5	5
Operating (drive case, max °C)	60	60	60	60	60
Non-operating (ambient, min °C)	-40	-40	-40	-40	-40
Non-operating (ambient max °C)	70	70	70	70	70
Environmental/Acoustics					
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	2.27	2.27	2.27	2.27	3
Idle (typical) ³	1.8 bels	1.8 bels	1.8 bels	1.8 bels	2.7 bels
Seek (typical)	2.8 bels	2.8 bels	2.8 bels	2.8 bels	2.7 bels
Environmental/Shock					
Shock, Operating 2 ms (Read/Write) (Gs)	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs	70/40 Gs
Shock, Non-operating, 1 ms and 2 ms (Gs)	250	250	250	250	250
Physical					
Height (mm/in)	26.11 mm/1.028 in	26.11 mm/1.028 in	26.11 mm/1.028 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	101.85 mm/4.01 in	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	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (lb/g)	690 g/1.521 lb	690 g/1.521 lb	690 g/1.521 lb	650 g/1.433 lb	705 g/1.55 lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

¹ Seagate recommends validating your configuration with your HBA/RAID controller manufacturer to ensure full capacity capabilities.

² Supports Hot-Plug operation per Serial ATA Revision 2.6 specification.

³ Rescue recovery services not available in all countries. Contact your Seagate sales representative for further details. Register an IronWolf Pro drive to activate your 2-year Rescue plan at seagate.com/register.



Specifications	4 TB	2 TB
Standard Model Number ¹	ST4000NE0025	ST2000NE0025
Interface	SATA 6Gb/s	SATA 6Gb/s
Features		
Drive Bays Supported	Up to 24-bay	Up to 24-bay
Multi-User Technology (TB/yr)	300	300
Rotational Vibration (RV) Sensors	Yes	Yes
Hot-Plug Support ²	Yes	Yes
Cache (MB)	128	128
Reliability/Data Integrity		
Mean Time Between Failures (MTBF, hours)	1,200,000	1,200,000
Reliability Rating @ Full 24x7 Operation (AFR)	0.73%	0.73%
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15
Power-On Hours per Year (24x7)	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E
Rescue Services ³	Yes	Yes
Limited Warranty (years)	5	5
Performance		
Spindle Speed (RPM)	7,200	7,200
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max. Sustained Transfer Rate OD (MB/s)	214MB/s	195MB/s
Average Latency (ms)	4.16	4.16
Interface Ports	Single	Single
Rotational Vibration @ 10-1,500 Hz (rad/s ²)	12.5	12.5
Power Consumption		
Startup Current, Typical (12V, A)	2	2
Idle Power, Average (W)	5.45	4.61
Average Operating Power (W)	8.5 W	6.5 W
Standby Mode (W)	0.6	0.8
Sleep Mode (W)	0.6	0.8
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature		
Operating (ambient, min °C)	5	5
Operating (drive case, max °C)	60	60
Non-operating (ambient, min °C)	-40	-40
Non-operating (ambient max °C)	70	70
Environmental/Acoustics		
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	3	3
Idle (typical) ³	2.7 bels	2.2 bels
Seek (typical)	2.8 bels	2.6 bels
Environmental/Shock		
Shock, Operating 2 ms (Read/Write) (Gs)	70/40 Gs	70/40 Gs
Shock, Non-operating, 1 ms and 2 ms (Gs)	300	300
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 (lb/g)	680 g/1.5 lb	550 g/1.21 lb
Carton Unit Quantity	20	20
Cartons per Pallet / Cartons per Layer	40/8	40/8

¹ Seagate recommends validating your configuration with your HBA/RAID controller manufacturer to ensure full capacity capabilities.

² Supports Hot-Plug operation per Serial ATA Revision 2.6 specification.

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