IRONWOLF PRO™

SEAGATE

3.5 HDD DATA SHEET

Tough. Ready. Scalable. Purpose-built for Creative Pro &Medium-to-Large Business NAS Environments

IronWolf Pro is designed for commercial and enterprise NAS. Delivering Tough, Ready and Scalable 24x7 performance in multi-bay, multi-user environments

Best-Fit Applications

- Commercial and Enterprise NAS
- Video Production RAID and Shared Network Storage
- Workstations and Servers
- On-prem NAS AI model training

Rescue DATA RECOVERY SERVICES

Key Advantages

Up to 32 TB Broad range of capacity options to deliver scalable, cost-efficient storage solutions.

Optimised for NAS with AgileArray™ AgileArray enables dual-plane balancing and time-limited error recovery for best-in-class RAID performance in multi-bay systems.

Always on, always accessible Designed for 24×7 use, allowing users to access their data any time, anywhere.

All-CMR portfolio All IronWolf Pro drives utilise conventional magnetic recording (CMR) technology for consistent, best-in-class NAS performance.

Built tough 550TB/yr workload allows commercial and enterprise NAS users to seamlessly store, share, and collaborate on large amounts of networked data.

Class-leading reliability and dependability Rated for 2.5M hours MTBF and include a 5-year limited warranty for hassle-free data storage and best-in-class total cost of ownership.

Rotational vibration sensors. Built-in RV sensors for vibration tolerance and consistent performance in multi-bay systems.

IronWolf Health Management[1] IHM actively protects your NAS data with prevention, intervention, and recovery recommendations to ensure peak system health.

Peace of mind with Data Recovery[2] IronWolf Pro drives include 3 years of complimentary Rescue Data Recovery Services, where our in-house, secure facilities offer an industry-leading 95% recovery rate from accidental data corruption or drive damage.

1 IHM is enabled on all leading NAS systems. Please check with your NAS vendor or a Seagate sales representative for more details.
2 Rescue Data Recovery Services not available in all countries. Contact your Seagate sales representative for further details.

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Specifications	32TB	30TB	28TB
Standard Model Number	ST32000NT000	ST30000NT011	ST28000NT000
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features			
Drive Bays Supported	Unlimited	Unlimited	Unlimited
Recording Technology	CMR	CMR	CMR
Drive Design (Air or Helium)	Helium	Helium	Helium
Workload Rate Limit (WRL)	550	550	550
Rotational Vibration (RV) Sensors	Yes	Yes	Yes
Cache (MB)	512 MB	512 MB	512 MB
Reliability/Data Integrity			
Mean Time Between Failures (MTBF, hours)	2500000hr	2500000hr	2500000hr
Non-recoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E15
Power-On Hours (per year)	8,760	8,760	8,760
Sector Size (Bytes per Logical Sector)	512E	512E	512E
Rescue Data Recovery Services (years)[3]	3	3	3
Limited Warranty (years)	5	5	5
Performance			
Spindle Speed (RPM)	7200RPM	7200RPM	7200RPM
Interface Access Speed (Gb/s)	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)	285	275	270
Rotational Vibration @ 10-1500 Hz (rad/s)	12.5	12.5	12.5
Power Consumption			
Startup Current, Typical (12V, A)	2.0A	2.0A	2.0A
Idle Power, Average (W)	6.8W	6.8W	6.8W
Average Operating Power (W)	8.3 W	8.3 W	8.3 W
Standby Mode, Typical (W)	1.2W	1.2W	1.2W
Sleep Mode, Typical (W)	1.2W	1.2W	1.2W
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature			
Operating Temperature (ambient, min °C)	10°C	10°C	10°C
Operating Temperature (drive reported, max °C)[4]	60°C	60°C	60°C
Non-operating Temperature (ambient, min °C)	-40°C	-40°C	-40°C
Non-operating Temperature (ambient, max °C)	70°C	70°C	70°C
Environmental/Acoustics			
Vibration, Non-operating: 10 Hz to 500 Hz (Grms)	2.27	2.27	2.27
Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	28	28	28
Acoustics, Seek (typical) (dBA)	32	32	32
Environmental/Shock			
Shock, Operating 2 ms (Read/Write) (Gs)	30/30 Gs	30/30 Gs	30/30 Gs
Shock, Non-operating, 1 ms and 2 ms (Gs)	200	200	200
Physical			
Height (mm/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
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	695 g/1.53 lb	695 g/1.53 lb	695 g/1.53 lb
Carton Unit Quantity	20	20	20
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8

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