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

**Optimized 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 utilize conventional magnetic recording (CMR) technology for consistent, best-in-class NAS performance.

**Up to 30TB** Broad range of capacity options to deliver scalable, cost-efficient storage solutions.

**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 | 30TB | 28TB |
|---|---|---|
| Standard Model Number | ST30000NT011 | ST28000NT000 |
| Interface | SATA 6Gb/s | SATA 6Gb/s |
| **Features** | | |
| Drive Bays Supported | Unlimited | Unlimited |
| Recording Technology | CMR | CMR |
| Drive Design (Air or Helium) | Helium | Helium |
| Workload Rate Limit (WRL) | 550 | 550 |
| Rotational Vibration (RV) Sensors | Yes | Yes |
| Cache (MB) | 512MB | 512MB |
| **Reliability/Data Integrity** | | |
| Mean Time Between Failures (MTBF, hours) | 2500000hr | 2500000hr |
| Nonrecoverable Read Errors per Bits Read, Max | 1 per 10E15 | 1 per 10E15 |
| Power-On Hours (per year) | 8760 | 8760 |
| Sector Size (Bytes per Logical Sector) | 512E | 512E |
| Rescue Data Recovery Services(years) [3] | 3 | 3 |
| Limited Warranty (years) | 5 | 5 |
| **Performance** | | |
| Spindle Speed (RPM) | 7200RPM | 7200RPM |
| Interface Access Speed (Gb/s) | 6.0, 3.0, 1.5 | 6.0, 3.0, 1.5 |
| Max. Sustained Transfer Rate OD (MB/s) | 275 | 270 |
| Rotational Vibration @ 10-1500 Hz (rad/s) | 12.5 | 12.5 |
| **Power Consumption** | | |
| Startup Current, Typical (12V, A) | 2.0A | 2.0A |
| Idle Power, Average (W) | 6.8W | 6.8W |
| Average Operating Power (W) | 8.3W | 8.3W |
| Standby Mode, Typical (W) | 1.2W | 1.2W |
| Sleep Mode, Typical (W) | 1.2W | 1.2W |
| Power Supply Requirements | +12 V and +5 V | +12 V and +5 V |
| **Environmental/Temperature** | | |
| Operating Temperature (ambient, min °C) | 10°C | 10°C |
| Operating Temperature (drive reported, max °C) [4] | 60°C | 60°C |
| Nonoperating Temperature (ambient, min °C) | -40°C | -40°C |
| Nonoperating Temperature (ambient, max °C) | 70°C | 70°C |
| **Environmental/Acoustics** | | |
| Vibration, Nonoperating: 10Hz to 500Hz (Grms) | 2.27 | 2.27 |
| Acoustics, Idle (typical, measured in Idle 1 state) (dBA) | 28 | 28 |
| Acoustics, Seek (typical) (dBA) | 32 | 32 |
| **Environmental/Shock** | | |
| Shock, Operating 2ms (Read/Write) (Gs) | 30/30Gs | 30/30Gs |
| Shock, Nonoperating, 1ms and 2ms (Gs) | 200 | 200 |
| **Physical** | | |
| Height (mm/in) | 26.11mm/1.028in | 26.11mm/1.028in |
| Width (mm/in, max) | 101.85mm/4.01in | 101.85mm/4.01in |
| Depth (mm/in, max) | 146.99mm/5.787in | 146.99mm/5.787in |
| Weight (g/lb, typical) | 695g/1.53lb | 695g/1.53lb |
| Carton Unit Quantity | 20 | 20 |
| Cartons per Pallet/Cartons per Layer | 40/8 | 40/8 |

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