



## 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



## 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 24x7 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<sup>1</sup>** IHM actively protects your NAS data with prevention, intervention, and recovery recommendations to ensure peak system health.

**Peace of mind with Data Recovery<sup>2</sup>** 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.

<sup>1</sup> IHM is enabled on all leading NAS systems. Please check with your NAS vendor or a Seagate sales representative for more details.

<sup>2</sup> Rescue Data Recovery Services not available in all countries. Contact your Seagate sales representative for further details.



| Specifications  | 30TB             | 28TB             |
|---|------------------|------------------|
| Standard Model Number                                       | ST30000NT011     | ST28000NT000     |
| Interface   | SATA 6Gb/s       | SATA 6Gb/s       |
| <b>Features</b>   |                  |                  |
| 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            |
| <b>Reliability/Data Integrity</b>                           |                  |                  |
| 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) <sup>3</sup>           | 3                | 3                |
| Limited Warranty (years)                                    | 5                | 5                |
| <b>Performance</b>  |                  |                  |
| 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             |
| <b>Power Consumption</b>                                    |                  |                  |
| 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   |
| <b>Environmental/Temperature</b>                            |                  |                  |
| Operating Temperature (ambient, min °C)                     | 10°C             | 10°C             |
| Operating Temperature (drive reported, max °C) <sup>4</sup> | 60°C             | 60°C             |
| Nonoperating Temperature (ambient, min °C)                  | -40°C            | -40°C            |
| Nonoperating Temperature (ambient, max °C)                  | 70°C             | 70°C             |
| <b>Environmental/Acoustics</b>                              |                  |                  |
| 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               |
| <b>Environmental/Shock</b>                                  |                  |                  |
| Shock, Operating 2ms (Read/Write) (Gs)                      | 30/30Gs          | 30/30Gs          |
| Shock, Nonoperating, 1ms and 2ms (Gs)                       | 200              | 200              |
| <b>Physical</b>   |                  |                  |
| 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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