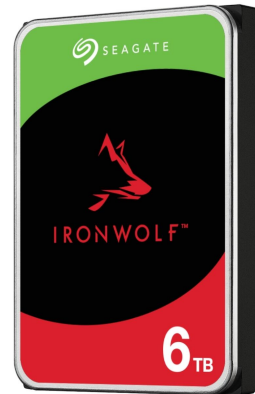


ST6000VN006

Seagate Ironwolf 6TB 3.5" 5400rpm SATA 6Gb/s NAS Hard Disk Drive

Product Overview

Seagate Ironwolf 6TB 3.5" 5400rpm SATA 6Gb/s NAS Hard Disk Drive, 1-8 bays Drive bays supported, CMR recording Technology, 202MB/s Maximum sustained transfer rate OD (MB/s), 5400rpm spindle speed, 256MB Cache, ST6000VN006



Specifications

Overview Summary:

The Seagate IronWolf 6TB NAS Hard Drive is engineered for dependable performance in home and small business NAS setups. Featuring 5400rpm spindle speed, 256MB cache, and CMR technology, it ensures smooth file sharing, backups, and media streaming. Its compatibility with 1-8 bay NAS enclosures makes it versatile for various storage needs. Buy now to safeguard your data with a drive built for endurance and efficiency.

This drive is energy-efficient, reducing heat and power consumption while maintaining reliable performance. With support for RAID configurations, AgileArray firmware, and IronWolf Health Management, it proactively monitors drive health for long-term stability. Shop now and optimize your NAS for continuous operation and data integrity.

Performance tier:High

Uses: NAS storage, file sharing, data backup, media streaming, collaborative access

Overview:

Seagate IronWolf 6TB NAS Hard Drive

The Seagate IronWolf 6TB NAS Hard Drive is expertly engineered for the demanding workloads of NAS environments, offering superior reliability, endurance, and speed for home, small business, and professional data storage systems. With a powerful combination of CMR technology, AgileArray firmware, and IronWolf Health Management, this drive ensures 24x7 operational readiness, optimized RAID performance, and proactive drive monitoring for superior data integrity.

Supporting up to 180TB workloads per year, the IronWolf 6TB delivers sustained transfer rates of up to 202MB/s, making it ideal for file sharing, data backups, media streaming, and collaborative access in multi-user NAS systems. It supports one- to eight-bay enclosures and is tested for compatibility with top NAS brands like Synology, QNAP, and Asustor. With RV sensors, dual-plane balance, and error recovery control, it maintains consistent performance in high-vibration, multi-drive environments, preventing mechanical strain and enhancing system longevity.

This IronWolf drive is also power-conscious, consuming as little as 0.5W in standby mode and averaging just 4.8W during active use. Its advanced energy-efficient design minimizes heat output and operating costs without compromising data throughput. Backed by a 3-year Seagate Rescue Data Recovery Services plan, you gain extra assurance for your most valuable digital content-making it the smart choice for always-on, mission-critical NAS storage.

Description:

The Seagate IronWolf 6TB NAS Hard Drive is designed for continuous operation in multi-bay NAS systems where performance stability, data protection, and workload efficiency are critical. It combines CMR recording technology with intelligent firmware optimization to deliver consistent throughput under heavy multi-user access. Built for scalability and endurance, it supports home media servers, small office storage, and collaborative cloud-style environments while maintaining stable performance under vibration and sustained workloads.

Features:

NAS Performance and Reliability Engineering

Built specifically for NAS optimization, this drive integrates rotational vibration sensors and dual-plane balance to reduce mechanical stress in multi-drive enclosures. Error recovery control enhances data integrity during intensive read and write operations, ensuring smoother RAID performance and improved long-term stability.

Key operational strengths include:

- Designed for NAS systems with 1 to 8 drive bays
- Supports up to 180TB annual workload rate
- Optimized for continuous 24x7 operation environments
- Stable performance in multi-user file sharing and backup workloads

Part number / SKU: ST6000VN006

Speed, Capacity, and Data Handling

With a 6TB storage capacity and SATA 6Gb/s interface, the drive is engineered for high-capacity data environments requiring reliable sustained throughput. It delivers up to 202MB/s maximum sustained transfer rate, making it suitable for large file transfers, media libraries, and backup repositories.

Technical highlights include:

- Capacity: 6TB
- Cache: 256MB

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Product Specification Sheet

- Spindle speed: 5400 RPM
- Recording technology: CMR
- Max sustained transfer rate: 202MB/s

System Integration and Compatibility

The IronWolf 6TB is validated for compatibility across leading NAS ecosystems including Synology, QNAP, and Asustor systems. Its firmware is optimized for RAID environments, ensuring consistent synchronization and reduced latency during array rebuilds and heavy access scenarios.

It is suitable for:

- Home NAS storage systems
- Small office file servers
- Personal cloud storage setups
- Multi-user collaborative storage environments

Power Efficiency and Environmental Tolerance

This drive is engineered to balance performance with energy efficiency, minimizing operational costs while maintaining continuous availability. It is designed to withstand demanding environmental conditions typical of NAS deployments.

Operational and power characteristics:

- Average operating power: 4.8W
- Idle power: 3.4W
- Standby/sleep mode: 0.25W
- Operating temperature range: 0C to 65C
- Shock resistance: 80G operating, 300G non-operating

Durability and Long-Term Stability

Built for extended operational life, the drive supports high load/unload cycles and maintains a strong mean time between failures rating. It is engineered for sustained reliability in always-on storage systems where uptime and data integrity are critical.

Durability metrics:

- Load/unload cycles: 600,000
- MTBF: 1,000,000 hours
- Nonrecoverable read error rate: 1 per 10E14
- RV sensors and vibration tolerance included

What is in the Box

- Seagate IronWolf NAS 6TB SATA Hard Drive x1

Specifications:

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Specifications	
Product Code	ST6000VN006
Specifications	6TB
Capacity	6TB

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Product Specification Sheet

Standard Model Number	ST6000VN006
Interface	SATA 6Gb/s
Features and Performance	
Drive Bays Supported	1-8 Bays
Recording Technology	CMR
Drive Design (Air or Helium)	Air
Workload Rate Limit (WRL)	180
Rotational Vibration (RV) Sensor	Yes
Dual-Plane Balance	Yes
Error Recovery Control	Yes
Max. Sustained Transfer Rate OD (MB/s)	202MB/s
Spindle Speed (RPM)	5400
Cache (MB)	256
Reliability	
Load/Unload Cycles	600000
Nonrecoverable Read Errors Rate, Max	1 per 10E14
Power-On Hours	8760
Mean Time Between Failures (MTBF, hours)	1000000
Power Management	
Startup Current, Typical (12V, A)	1.8
Average Operating Power	5.3
Idle Power Average (W)	3.4W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25
Voltage Tolerance, Inc. Noise (5V / 12V)	+/-5% / +/-10%
Environmental/Temperature	
Operating Temperature (ambient, mindegreesC)	0
Operating Temperature (drive reported, max degreesC)	65
Nonoperating Temperature (ambient, min / max degreesC)	-40 / 70
Environmental/Shock	
Shock, Operating/Nonoperating: 2ms (max)	80Gs/300Gs
Environmental/Acoustics	

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Product Specification Sheet

Acoustics, Idle (typical, measured in Idle 1 state) (dBA)	26
Acoustics, Seek (typical) (dBA)	28

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/ST6000VN006-Seagate-Ironwolf-6TB-3-5-5400rpm-SATA-6Gb-Buy-p-336269.php>

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