



DATA SHEET

Tough. Efficient. Endurance Ready.

IronWolf 125 SSD



NAS-optimized Seagate® IronWolf® 125 SSDs deliver powerhouse performance with 24x7, always-on capability and lead the pack in scalability—meeting your needs and budget.



Best-Fit Applications

- Ultra high endurance NAS
- All-flash array and desktop NAS
- Creative pro, SMB, and SME
- Media server
- SSD cache in enabled NAS

Key Advantages

High Endurance: Powerhouse SSD endurance and performance designed for heavy workloads and multi-user NAS environments

IronWolf Health Management: Embedded software monitors your drive health in compatible NAS, notifying you to intervene before a catastrophic event occurs

Data Recovery: Rest easy with three years of Seagate Rescue Data Recovery Services, offering an industry-leading 90% success rate against unexpected data loss from power outages, natural disasters, user error, viruses, and more

Wide Range of Capacity Options: Choose from an extensive portfolio of capacities, including 250GB, 500GB, 1TB, 2TB, and 4TB

Warranty: Enjoy long-term peace of mind with the included five-year limited warranty



| Specifications | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|
| Capacity | 4TB | 2TB | 1TB | 500GB | 250GB |
| Standard Model | ZA4000NM10002 | ZA2000NM10002 | ZA1000NM10002 | ZA500NM10002 | ZA250NM10002 |
| Features | | | | | |
| Interface | SATA 6Gb/s | SATA 6Gb/s | SATA 6Gb/s | SATA 6Gb/s | SATA 6Gb/s |
| NAND Flash Type | 3D TLC | 3D TLC | 3D TLC | 3D TLC | 3D TLC |
| Form Factor | 2.5 in × 7mm | 2.5 in × 7mm | 2.5 in × 7mm | 2.5 in × 7mm | 2.5 in × 7mm |
| Performance | | | | | |
| Sequential Read (Max, MB/s), 128KB QD32 ¹ | 560 | 560 | 560 | 560 | 560 |
| Sequential Write (Max, MB/s), 128KB QD32 ¹ | 540 | 540 | 540 | 540 | 540 |
| Random Read (Max, IOPS), 4KB QD32 ¹ | 95,000 | 95,000 | 95,000 | 95,000 | 95,000 |
| Random Write (Max, IOPS), 4KB QD32 ¹ | 90,000 | 90,000 | 90,000 | 90,000 | 90,000 |
| Endurance/Reliability | | | | | |
| Total Bytes Written (TB) | 5600 | 2800 | 1400 | 700 | 300 |
| Nonrecoverable Read Errors per Bits Read | 1 per 10E17 | 1 per 10E17 | 1 per 10E17 | 1 per 10E17 | 1 per 10E17 |
| Mean Time Between Failures (MTBF, hours) | 1,800,000 | 1,800,000 | 1,800,000 | 1,800,000 | 1,800,000 |
| Warranty, Limited (years) | 5 | 5 | 5 | 5 | 5 |
| Power Management | | | | | |
| Power Supply | 5V | 5V | 5V | 5V | 5V |
| +5 Active Max Average Power (W) | 2.8 | 2.6 | 2.4 | 2.3 | 2.3 |
| Average Idle Power (mW) | 140 | 140 | 130 | 115 | 110 |
| DevSleep (mW) | 5 | 5 | 5 | 5 | 5 |
| Environmental | | | | | |
| Temperature, Operating Internal (°C) | 0 to 70 | 0 to 70 | 0 to 70 | 0 to 70 | 0 to 70 |
| Temperature, Nonoperating (°C) | -40 to 85 | -40 to 85 | -40 to 85 | -40 to 85 | -40 to 85 |
| Shock, Nonoperating: 0.5ms (Gs) | 1500 | 1500 | 1500 | 1500 | 1500 |
| Physical | | | | | |
| Height (mm/in, max) | 7.10mm/0.279in | 7.10mm/0.279in | 7.10mm/0.279in | 7.10mm/0.279in | 7.10mm/0.279in |
| Width (mm/in, max) | 70.10mm/2.759in | 70.10mm/2.759in | 70.10mm/2.759in | 70.10mm/2.759in | 70.10mm/2.759in |
| Depth (mm/in, max) | 100.35mm/3.950in | 100.35mm/3.950in | 100.35mm/3.950in | 100.35mm/3.950in | 100.35mm/3.950in |
| Weight (g/lb) | 50g/0.110lb | 50g/0.110lb | 50g/0.110lb | 50g/0.110lb | 50g/0.110lb |

¹ Fresh out of box (FOB) performance obtained on newly formatted drive. Performance may vary based on SSD's firmware version, system hardware, and configuration. Performance based on CrystalDiskMark v.6.0.0 x64 on Windows 10 host.



| | | | |
|---------------------------|----------------|--------------------------|-------------------|
| Ordering Information | | | |
| Specifications | | | |
| Retail Packaging | Box Dimensions | Master Carton Dimensions | Pallet Dimensions |
| Depth/Length (in/mm) | 0.944in/24mm | 6.023in/153mm | 48.03in/1220mm |
| Width (in/mm) | 4.291in/109mm | 11.496in/292mm | 40.15in/1020mm |
| Height (in/mm) | 6.102in/155mm | 5.511in/140mm | 55.90in/1420mm |
| Weight (lb/kg) | 0.02lb/0.1kg | 2.64lb/1.2kg | 687.84lb/312kg |
| Quantities | | | |
| Boxes per Master Carton | 10 | | |
| Master Cartons per Pallet | 216 | | |
| Pallet Layers | 9 | | |

| | |
|---------------------|-----------------|
| System Requirements | What's Included |
|---------------------|-----------------|

- SATA 6Gb/s or SATA 3Gb/s port
- Windows® 10, Windows 8.1
- Linux
- Seagate® IronWolf® 125 SSD

| Region | Model Number | Capacity | Limited Warranty (years) | UPC Code | EAN Code | Multi-Pack UPC |
|--------|---------------|----------|--------------------------|--------------|---------------|----------------|
| WW | ZA4000NM1A002 | 4TB | 5 | 763649146880 | 8719706027151 | 10763649146887 |
| WW | ZA2000NM1A002 | 2TB | 5 | 763649146873 | 8719706027144 | 10763649146870 |
| WW | ZA1000NM1A002 | 1TB | 5 | 763649146866 | 8719706027137 | 10763649146863 |
| WW | ZA500NM1A002 | 500GB | 5 | 763649146859 | 8719706027120 | 10763649146856 |
| WW | ZA250NM1A002 | 250GB | 5 | 763649146842 | 8719706027113 | 10763649146849 |

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