



DATA SHEET

Tough. Efficient. Endurance Ready.

## IronWolf 125 SSD



NAS-optimised 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

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

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

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**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

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

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

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| Specifications   |                    |                    |                    |                    |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity   | 4 TB               | 2 TB               | 1 TB               | 500 GB             | 250 GB             |
| Standard Model   | ZA4000NM10002      | ZA2000NM10002      | ZA1000NM10002      | ZA500NM10002       | ZA250NM10002       |
| Features   |                    |                    |                    |                    |                    |
| Interface  | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        | SATA 6 Gb/s        |
| NAND Flash Type  | 3D TLC             | 3D TLC             | 3D TLC             | 3D TLC             | 3D TLC             |
| Form Factor  | 2.5 in x 7 mm      | 2.5 in x 7 mm      | 2.5 in x 7 mm      | 2.5 in x 7 mm      | 2.5 in x 7 mm      |
| Performance  |                    |                    |                    |                    |                    |
| Sequential Read (Max, MB/s), 128 KB QD32 <sup>1</sup>  | 560                | 560                | 560                | 560                | 560                |
| Sequential Write (Max, MB/s), 128 KB QD32 <sup>1</sup> | 540                | 540                | 540                | 540                | 540                |
| Random Read (Max, IOPS), 4 KB QD32 <sup>1</sup>        | 95,000             | 95,000             | 95,000             | 95,000             | 95,000             |
| Random Write (Max, IOPS), 4 KB QD32 <sup>1</sup>       | 90,000             | 90,000             | 90,000             | 90,000             | 90,000             |
| Endurance/Reliability                                  |                    |                    |                    |                    |                    |
| Total Bytes Written (TB)                               | 5,600              | 2,800              | 1,400              | 700                | 300                |
| Non-recoverable 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, Non-operating (°C)                        | -40 to 85          | -40 to 85          | -40 to 85          | -40 to 85          | -40 to 85          |
| Shock, Non-operating: 0.5 ms (Gs)                      | 1,500              | 1,500              | 1,500              | 1,500              | 1,500              |
| Physical   |                    |                    |                    |                    |                    |
| Height (mm/in, max)                                    | 7.10 mm/0.279 in   | 7.10 mm/0.279 in   | 7.10 mm/0.279 in   | 7.10 mm/0.279 in   | 7.10 mm/0.279 in   |
| Width (mm/in, max)                                     | 70.10 mm/2.759 in  | 70.10 mm/2.759 in  | 70.10 mm/2.759 in  | 70.10 mm/2.759 in  | 70.10 mm/2.759 in  |
| Depth (mm/in, max)                                     | 100.35 mm/3.950 in | 100.35 mm/3.950 in | 100.35 mm/3.950 in | 100.35 mm/3.950 in | 100.35 mm/3.950 in |
| Weight (lb/g)  | 50g/0.110 lb       | 50g/0.110 lb       | 50g/0.110 lb       | 50g/0.110 lb       | 50g/0.110 lb       |

<sup>1</sup> 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)      | 0.944 in/24 mm  | 6.023 in/153 mm          | 48.03 in/1,220 mm |
| Width (in/mm)             | 4.291 in/109 mm | 11.496 in/292 mm         | 40.15 in/1,020 mm |
| Height (in/mm)            | 6.102 in/155 mm | 5.511 in/140 mm          | 55.90 in/,mm      |
| Weight (lb/kg),           | 0.02 lb/0.1 kg  | 2.64 lb/1.2 kg           | 687.84 lb/312 kg  |
| Quantities                |                 |                          |                   |
| Boxes per Master Carton   | 10              |                          |                   |
| Master Cartons per Pallet | 216             |                          |                   |
| Pallet Layers             | 9               |                          |                   |

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

- SATA 6 Gb/s or SATA 3 Gb/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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