



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 Rescue Data Recovery Services, offering an industry-leading 95% 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
Rescue Data Recovery Services ²	Yes	Yes	Yes	Yes	Yes
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.

² Three-year Rescue Data Recovery Services not available in all countries. Contact your Seagate sales representative for further details.



Ordering Information	
Specifications	
Retail Packaging	Box Dimensions
Depth/Length (in/mm)	1in/24mm
Width (in/mm)	4.3in/109mm
Height (in/mm)	6.10in/155mm
Weight (lb/kg)	0.22lb/0.1kg
Master Carton Dimensions	
Depth/Length (in/mm)	6in/153mm
Width (in/mm)	11.5in/292mm
Height (in/mm)	5.5in/140mm
Weight (lb/kg)	2.65lb/1.2kg
Pallet Dimensions	
Depth/Length (in/mm)	48in/1219mm
Width (in/mm)	20in/508mm
Height (in/mm)	28in/706mm
Weight (lb/kg)	148lb/67.28kg
Quantities	
Boxes per Master Carton	10
Master Cartons per Pallet	48
Pallet Layers	4

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

seagate.com



© 2020 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. IronWolf and the IronWolf logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2052.2-2011US November 2020