



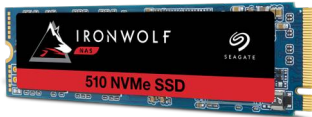
DATA SHEET

Tough. Ready. Scalable.

IronWolf 510 SSD



Built for NAS, Seagate® IronWolf® 510 delivers high-endurance performance and caching speeds of up to 3,150 MB/s — or 3 GB/s for NVMe-compatible systems. With capacities of up to 1.92 TB, it's the go-to solution for creative pros and businesses needing 24x7 multi-user storage.



Best-Fit Applications

- Tiered caching on enabled NAS
- Creative pro NAS
- Small, medium enterprise NAS



Key Advantages

Tap into the power of SSD cache tiering and make 24x7 loading for multiple users a smooth, easy process.

Easily tackle the high-endurance requirements of NAS with 1 DWPD.

Offering best-in-class performance, IronWolf 510 SSD ensures low lag and low down time in multi-user environments.

Seagate has your back in almost every situation when it comes to a failed drive with three years of Rescue Data Recovery Services.

Enjoy long-term reliability with 1.8M hours MTBF in a PCIe form factor.

Choose from an extensive portfolio of capacity options including 240 GB, 480 GB, 960 GB, and 1.92 TB.



Specifications				
Capacity	1.92 TB	960 GB	480 GB	240 GB
Standard Model	ZP1920NM30001	ZP960NM30001	ZP480NM30001	ZP240NM30001
Features				
Interface	PCIe G3 x4, NVMe 1.3	PCIe G3 x4, NVMe 1.3	PCIe G3 x4, NVMe 1.3	PCIe G3 x4, NVMe 1.3
NAND Flash Type	3D TLC	3D TLC	3D TLC	3D TLC
Form Factor	M.2 2280-D2	M.2 2280-D2	M.2 2280-S2	M.2 2280-S2
Performance				
Sequential Read (MB/s) Sustained, 128 KB QD32 ¹	3,150	3,150	2,650	2,450
Sequential Write (MB/s) Sustained, 128 KB QD32 ¹	850	1,000	600	290
Random Read (IOPS) (QD32T4) ¹	270,000	345,000	193,000	100,000
Random Write (IOPS) (QD32T4) ¹	25,000	28,000	20,000	12,000
Random Read (IOPS) (QD32T8) ¹	290,000	380,000	199,000	100,000
Random Write (IOPS) (QD32T8) ¹	27,000	29,000	21,000	13,000
Endurance/Reliability				
Total Bytes Written (TB)	3,500	1,750	875	435
Non-recoverable Read Errors per Bits Read	1 per 10E16	1 per 10E16	1 per 10E16	1 per 10E16
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000	1,800,000	1,800,000
Rescue Data Recovery Services (years) ²	3	3	3	3
Warranty, Limited (years)	5	5	5	5
Power Management				
Power Supply	3.3V	3.3V	3.3V	3.3V
Active Max Average Power (W)	6.0	6.0	6.0	5.3
Average Idle Power (W)	2.0	1.95	1.83	1.75
Environmental				
Temperature, Operating Internal (°C)	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
Shock, 0.5 ms (Gs)	1,500	1,500	1,500	1,500
Physical				
Height (in/mm, max)	0.140 in/3.58 mm	0.140 in/3.58 mm	0.087 in/2.23 mm	0.087 in/2.23 mm
Width (in/mm, max)	0.872 in/22.15 mm	0.872 in/22.15 mm	0.872 in/22.15 mm	0.872 in/22.15 mm
Depth (in/mm, max)	3.16 in/80.15 mm	3.16 in/80.15 mm	3.16 in/80.15 mm	3.16 in/80.15 mm
Weight (lb/g)	0.018 lb/8.3g	0.017 lb/8.1g	0.015 lb/6.9g	0.014 lb/6.5g
Carton Unit Quantity	10	10	10	10

¹ Performance data is based on testing under certain workload conditions and is subject to change.

² Rescue Data Recovery Services not available in all countries. Contact your Seagate sales representative for further details. Register an IronWolf 510 SSD to activate your 3-year Rescue Services plan at seagate.com/register.



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 in/1219 mm
Width (in/mm)	4.291 in/109 mm	11.496 in/292 mm	20 in/508 mm
Height (in/mm)	6.102 in/155 mm	5.511 in/140 mm	28 inch/706 mm
Weight (lb/kg),	0.14 lb/0.062 kg	1.9 lb/0.88 kg	103 lb/46.34 kg
Quantities			
Boxes per Master Carton	10		
Master Cartons per Pallet	48		
Pallet Layers	4		

System Requirements	What's Included
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- Windows® 10, Windows 8.1
- Linux
- Seagate® IronWolf® 510 SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZP1920NM30011	1.92TB	5	763649135983	8719706018357	10763649135980
WW	ZP960NM30011	960GB	5	763649135976	8719706018340	10763649135973
WW	ZP480NM30011	480GB	5	763649135969	8719706018333	10763649135966
WW	ZP240NM30011	240GB	5	763649135952	8719706018326	10763649135959

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