![IronWolf NAS logo]

SEAGATE
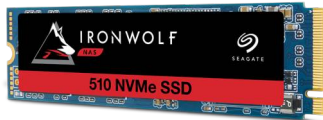
Tough. Ready. Scalable.
IronWolf 510 SSD

Built for NAS, Seagate® IronWolf® 510 delivers high-endurance performance and caching speeds of up to 3150MB/s—or 3GB/s for NVMe-compatible systems. With capacities of up to 1.92TB, it's the go-to solution for creative pros and businesses needing 24×7 multi-user storage.

Key Advantages

Tap into the power of SSD cache tiering and make 24×7 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 240GB, 480GB, 960GB, and 1.92TB.

Best-Fit Applications

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

Rescue DATA RECOVERY SERVICES

IRONWOLF NAS

Specifications				
Capacity	1.92TB	960GB	480GB	240GB
Standard Model	ZP1920NM30001	ZP960NM30001	ZP480NM30001	ZP240NM30001
Features				
Interface	PCIe G3 ×4, NVMe 1.3	PCIe G3 ×4, NVMe 1.3	PCIe G3 ×4, NVMe 1.3	PCIe G3 ×4, 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, 128KB QD32[1]	3,150	3,150	2,650	2,450
Sequential Write (MB/s) Sustained, 128KB 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
Nonrecoverable 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, Nonoperating (°C)	−40 to 85	−40 to 85	−40 to 85	−40 to 85
Shock, 0.5ms (Gs)	1500	1500	1500	1500
Physical				
Height (in/mm, max)	0.140in/3.58mm	0.140in/3.58mm	0.087in/2.23mm	0.087in/2.23mm
Width (in/mm, max)	0.872in/22.15mm	0.872in/22.15mm	0.872in/22.15mm	0.872in/22.15mm
Depth (in/mm, max)	3.16in/80.15mm	3.16in/80.15mm	3.16in/80.15mm	3.16in/80.15mm
Weight (lb/g)	0.018lb/8.3g	0.017lb/8.1g	0.015lb/6.9g	0.014lb/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)	0.944in/24mm	6.023in/153mm	48in/1219mm
Width (in/mm)	4.291in/109mm	11.496in/292mm	20in/508mm
Height (in/mm)	6.102in/155mm	5.511in/140mm	28inch/706mm
Weight (lb/kg)	0.14lb/0.062kg	1.9lb/0.88kg	103lb/46.34kg
Quantities			
Boxes per Master Carton	10		
Master Cartons per Pallet	48		
Pallet Layers	4		

System Requirements	What's Included

- 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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