

DATA SHEET

Tough. Ready. Scalable.



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.



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 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 possible when it comes to a failed drive with a 2-year Rescue Data Recovery Services plan.

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.







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)	0.150	0.450	0.050	2,450	
Sustained, 128KB QD32 ¹	3,150	3,150	2,650		
Sequential Write (MB/s)	850	1,000	600	200	
Sustained, 128KB QD32 ¹	850	1,000	000	290	
Random Read (IOPS)	270,000	345,000	193,000	100,000	
(QD32T4) ¹	270,000	0-0,000	100,000	100,000	
Random Write (IOPS)	25,000	28,000	20,000	12,000	
(QD32T4) ¹	20,000				
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		
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		
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.





Ordering Information							
Specifications							
Retail Packaging		Box Dimensions	Master Carton Dimensions	Pallet Dimensions			
Depth/Length (in/mm)		0.944in/24mm	6.023in/153mm	47.24/in1200mm			
Width (in/mm)		4.291in/109mm	11.496in/292mm	39.38in/1000mm			
Height (in/mm)		6.102in/155mm	5.511in/140mm	52inch/1320mm			
Weight (lb/kg)		0.14lb/0.062kg	1.9lb/0.88kg	448lb/203.2kg			
Quantities							
Boxes per Master Carton	10						
Master Cartons per Pallet	196						
Pallet Layers	7						

System Requirements

What's Inclu

• Windows[®] 10, Windows 8.1

• Seagate[®] IronWolf[®] 510 SSD

• Linux

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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