

DATA SHEET

Tough. Ready. Scalable.
IronWolf 110 SSD



The Seagate® IronWolf® 110 SSD is designed for everything business NAS, with 24x7 performance to handle multi-user environments across a wide range of capacities.



Take your NAS to the next level with the IronWolf 110 SATA SSD, providing pure performance in all-flash array or tiered cache NAS-enabled systems. This enterprise-grade SSD gives you increased durability and peace of mind.

Optimised to Be Tough

Boost the performance of NAS, which requires faster random access performance

Maintain fast, consistent performance for read-intensive and mixed workloads

Choose built-in drive monitoring with enabled NAS with IronWolf Health Management¹

Key Features and Benefits

- SATA 6 Gb/s interface for easy deployment
- Seagate DuraWrite™ lossless data reduction technology
- Optimised with AgileArray firmware tuned specifically for NAS
- Power loss data protection circuit
- Enterprise-class reliability with 2M-hr. MTBF and a 5-year limited warranty

Best-Fit Applications

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

Always Accessible, Always Ready

Require less energy to run on 24x7 NAS, and save on cooling and overall energy cost

Acquire the capacity and endurance to fit a range of applications and workloads

Scalable for Data Growth in NAS

Leverage a wide portfolio to fit your growing business needs

Depend on a 5-year limited warranty and included 2-year Data Recovery Services plan

¹ Coming soon on enabled NAS

DURAWRITE



Specifications					
Capacity	3.84 TB	1.92 TB	960 GB	480 GB	240 GB
Standard Model	ZA3840NM10001	ZA1920NM10001	ZA960NM10001	ZA480NM10001	ZA240NM10001
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 (MB/s) Sustained, 128 KB QD32 ¹	560	560	560	560	560
Sequential Write (MB/s) Sustained, 128 KB QD32 ¹	535	535	535	535	345
Random Read (IOPS) Sustained, 4 KB QD32 ¹	85000	90000	90000	75000	55000
Random R70R (IOPS) Sustained, 4KB QD32 ¹	60000	65000	50000	40000	30000
Random Write (IOPS) Sustained, 4 KB QD32 ¹	45000	50000	55000	50000	30000
Average Read Latency (µs), 4 KB QD1 ¹	175	160	155	155	155
Average Write Latency (µs), 4 KB QD1 ¹	40	35	40	40	40
Endurance/Reliability					
Total Bytes Written (TB)	7,000	3500	1750	875	435
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)	2000000	2000000	2000000	2000000	2000000
Warranty, Limited (years)	5	5	5	5	5
Power Management					
Power Supply	5V + 12V	5V + 12V	5V + 12V	5V	5V
+5/+12V Active Max Average Power (W) ²	3.5	3.4	3.2	2.7	2.3
Average Idling Power (W)	1.2	1.2	1.2	1.1	1.1
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
Temperature Change Rate/Hr, Max (°C)	20	20	20	20	20
Shock, 0.5 ms (Gs)	1,000	1,000	1,000	1,000	1,000
Physical					
Height (in/mm, max)	7.00 mm/0.276 in	7.00 mm/0.276 in	7.00 mm/0.276 in	7.00 mm/0.276 in	7.00 mm/0.276 in
Width (in/mm, max)	70.10 mm/2.760 in	70.10 mm/2.760 in	70.10 mm/2.760 in	70.10 mm/2.760 in	70.10 mm/2.760 in
Depth (in/mm, max)	100.25 mm/3.947 in	100.25 mm/3.947 in	100.25 mm/3.947 in	100.25 mm/3.947 in	100.25 mm/3.947 in
Weight (lb/g)	79.4 g/0.175 lb	74.7 g/0.164 lb	74.3 g/0.163 lb	74.1 g/0.163 lb	70.6 g/0.155 lb
Carton Unit Quantity	10	10	10	10	10

¹ Performance data is based on testing under certain workload conditions and is subject to change. Performance assumes that a typical enterprise data workload has 80% entropy.

² 3.84 TB, 1.92 TB, and 960 GB capacity points require 12V in addition to 5V power.



Ordering Information			
Specifications			
Retail Packaging	Box Dimensions	Master Carton Dimensions ¹	Pallet Dimensions
Depth/Length (in/mm)	1.004 in/25.50 mm	260.0 in/10.236 mm	47.992 in/1219.00 mm
Width (in/mm)	4.350 in/110.50 mm	163.0 in/6.417 mm	40.000 in/1016.00 mm
Height (in/mm)	5.344 in/135.75 mm	113.0 in/4.449 mm	46.181 in/1173.00 mm
Weight (lb/kg)	0.279 lb/0.127 kg	3.201 lb/1.455 kg	519.860 lb/236.300 kg
Quantities			
Boxes per Master Carton	10		
Master Cartons per Pallet	160		
Pallet Layers	8		

System Requirements	What's Included
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- Windows® 10, Windows 8.1, Windows 7
- Linux

- Seagate® IronWolf® 110 SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZA3840NM10011	3.84 TB	5	763649134061	8719706016674	10763649134068
WW	ZA1920NM10011	1.92 TB	5	763649134054	8719706016667	10763649134051
WW	ZA960NM10011	960GB	5	763649134047	8719706016650	10763649134044
WW	ZA480NM10011	480GB	5	763649134030	8719706016643	10763649134037
WW	ZA240NM10011	240GB	5	763649134023	8719706016636	10763649134020

¹ Inner dimensions

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