



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.

## Optimized 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 Management<sup>1</sup>

## Key Features and Benefits

- SATA 6Gb/s interface for easy deployment
- Seagate DuraWrite™ lossless data reduction technology
- Optimized 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 Rescue Data Recovery Services

<sup>1</sup> Coming soon on enabled NAS





Specifications					
Capacity	3.84TB	1.92TB	960GB	480GB	240GB
Standard Model	ZA3840NM10001	ZA1920NM10001	ZA960NM10001	ZA480NM10001	ZA240NM10001
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 (MB/s) Sustained, 128KB QD32 <sup>1</sup>	560	560	560	560	560
Sequential Write (MB/s) Sustained, 128KB QD32 <sup>1</sup>	535	535	535	485	230
Random Read (IOPS) Sustained, 4KB QD32 <sup>1</sup>	85000	90000	90000	80000	55000
Random Write (IOPS) Sustained, 4KB QD32 <sup>1</sup>	20000	20000	20000	15000	8000
Endurance/Reliability					
Total Bytes Written (TBW, TB)	7000	3500	1750	875	435
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)	2000000	2000000	2000000	2000000	2000000
Rescue Data Recovery Services (years) <sup>2</sup>	2	2	2	2	2
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) <sup>3</sup>	3.5	3.4	3.2	2.7	2.3
Average Idle 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, Nonoperating (°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, 0.5ms (Gs)	1000	1000	1000	1000	1000
Physical					
Height (in/mm, max)	7.00mm/0.276in	7.00mm/0.276in	7.00mm/0.276in	7.00mm/0.276in	7.00mm/0.276in
Width (in/mm, max)	70.10mm/2.760in	70.10mm/2.760in	70.10mm/2.760in	70.10mm/2.760in	70.10mm/2.760in
Depth (in/mm, max)	100.25mm/3.947in	100.25mm/3.947in	100.25mm/3.947in	100.25mm/3.947in	100.25mm/3.947in
Weight (lb/g)	82g/0.180lb	77g/0.169lb	77g/0.169lb	75g/0.165lb	75g/0.165lb
Carton Unit Quantity	10	10	10	10	10

<sup>1</sup> 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.

<sup>2</sup> Rescue Data Recovery Services not available in all countries. Contact your Seagate sales representative for further details. Register an IronWolf drive to activate your 2-year Rescue Services at [seagate.com/register](http://seagate.com/register).

<sup>3</sup> 3.84TB, 1.92TB, and 960GB capacity points require 12V in addition to 5V power.



Ordering Information			
Specifications			
Retail Packaging	Box Dimensions	Master Carton Dimensions <sup>1</sup>	Pallet Dimensions
Depth/Length (in/mm)	1.004in/25.50mm	260.0in/10.236mm	47.992in/1219.00mm
Width (in/mm)	4.350in/110.50mm	163.0in/6.417mm	40.000in/1016.00mm
Height (in/mm)	5.344in/135.75mm	113.0in/4.449mm	46.181in/1173.00mm
Weight (lb/kg)	0.279lb/0.127kg	3.201lb/1.455kg	519.860lb/236.300kg
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	3.84TB	5	763649134061	8719706016674	10763649134068
WW	ZA1920NM10011	1.92TB	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

<sup>1</sup> Inner dimensions

[seagate.com](http://seagate.com)



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