



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 Management¹

Key Features and Benefits

- SATA 6Gb/s interface for easy deployment
- Seagate DuraWrite™ lossless data reduction technology
- Tunable capacity for performance- or capacity-optimized SSD solutions
- 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	3.84TB	1.92TB	960GB	480GB	240GB
Standard Model (TCG Pyrite)	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 x 7mm	2.5 in x 7mm	2.5 in x 7mm	2.5 in x 7mm	2.5 in x 7mm
Performance					
Sequential Read (MB/s) Sustained, 128KB QD32 ¹	560	560	560	560	560
Sequential Write (MB/s) Sustained, 128KB QD32 ¹	535	535	535	535	345
Random Read (IOPS) Sustained, 4KB QD32 ¹	85,000	90,000	90,000	75,000	55,000
Random R70R (IOPS) Sustained, 4KB QD32 ¹	60,000	65,000	50,000	40,000	30,000
Random Write (IOPS) Sustained, 4KB QD32 ¹	45,000	50,000	55,000	50,000	30,000
Average Read Latency (µs), 4KB QD1 ¹	175	160	155	155	155
Average Write Latency (µs), 4KB QD1 ¹	40	35	40	40	40
Endurance/Reliability					
Total Bytes Written (TB)	7,000	3,500	1,750	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)	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Limited Warranty (years)	5	5	5	5	5
Power Management					
+5/+12V Active Max Average Power (W) ²	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°C – 70°C	0°C – 70°C	0°C – 70°C	0°C – 70°C	0°C – 70°C
Temperature, Nonoperating (°C)	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Temperature Change Rate/Hr, Max (°C)	20	20	20	20	20
Shock, 0.5ms (Gs)	1000	1000	1000	1000	1000
Physical					
Height (mm/in, max)	7.0mm/0.276in	7.0mm/0.276in	7.0mm/0.276in	7.0mm/0.276in	7.0mm/0.276in
Width (mm/in, max)	70.10mm/2.760in	70.10mm/2.760in	70.10mm/2.760in	70.10mm/2.760in	70.10mm/2.760in
Depth (mm/in, max)	100.25mm/3.947in	100.25mm/3.947in	100.25mm/3.947in	100.25mm/3.947in	100.25mm/3.947in
Weight (g/lb)	77.0g/0.169lb	77.0g/0.169lb	77.0g/0.169lb	77.0g/0.169lb	77.0g/0.169lb
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 3.84TB, 1.92TB, and 960GB capacity points require 12V in addition to 5V power.

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