

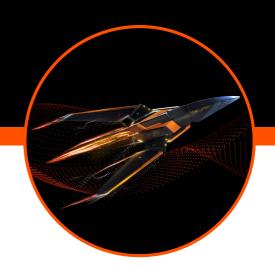


2.5-in SSD DATA SHEET

Built for Fast Data Centre Applications

Nytro 2050 SAS SSD Series

The Seagate Nytro 2050 SAS SSD is the superior SATA alternative, delivering up to 7 TB in 2.5-in x 15 mm form factor. Harness a 12 Gb/s interface with dual ports for speeds up to 1,050 MB/s, choose from three endurance options including up to 3 DWPD, and rely on drive monitoring and government-grade encryption. It's all here — fast, consistent, scalable, and secure performance for the most demanding enterprise workloads.





Best-Fit Applications

- Single-port, high-capacity storage systems
- SATA-compatible systems

Key Advantages

12 Gb/s SAS interface and a single port for 24×7 performance

High-density capacities of up to 7 TB in a 2.5-in \times 15 mm form factor

Low latency and high QoS for better responsiveness and user experience

Easily manage and monitor SSD health with SeaChest

Three endurance options to meet workload, deployment and TCO demands

Ensures reliable data protection for mission-critical applications

Seagate Secure [™]with Secure Download and Diagnostics (SD&D), SED, and SED FIPS 140-2 options for advanced data security ¹

Built for easy integration with Linux and Microsoft OS

1 Self-encrypting drives (SED) are not available in all models or countries. May require TCG-compliant host or controller support.





Specifications		Nytro 2350 — Scaled Endurance		
Capacity	7.68 TB	3.84 TB	1.92 TB	960 GB
Standard Model	XS7680SE70135	XS3840SE70085	XS1920SE70085	XS960SE70085
Seagate Secure™ SED Model1	XS7680SE70145	XS3840SE70095	XS1920SE70095	XS960SE70095
Seagate Secure FIPS 140-2/Common Criteria Mode1	XS7680SE70155	XS3840SE70105	XS1920SE70105	XS960SE70105
Seagate Instant Secure Erase (ISE) Model	XS7680SE70165	XS3840SE70115	XS1920SE70115	XS960SE70115
Features				
Interface	SAS 12 Gb/s	SAS 12 Gb/s	SAS 12 Gb/s	SAS 12 Gb/s
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	2.5 in × 15mm	2.5 in × 15 mm	2.5 in × 15 mm	2.5 in × 15 mm
Performance				
Sequential Read (MB/s) Sustained, 128 KB ²	1050MB/s	1050MB/s	1050MB/s	1050MB/s
Sequential Write (MB/s) Sustained, 128 KB ²	1,050	1,050	1,050	1,050
Random Read (IOPS) Sustained, 4 KB ²	190,000	190,000	170,000	190,000
Random Write (IOPS) Sustained, 4 KB 2	50,000	50,000	50,000	50,000
Random 30% Write (IOPS) Sustained, 4 KB ²	120,000	120,000	120,000	120,000
Endurance/Reliability				
Lifetime Endurance (Drive Writes per Day)	1	1	1	1
Total Bytes Written (TB)	14,000	7,000	3,500	1,700
Non-recoverable Read Errors per Bits Read	1 per 10E17	1 per 10E17	1 per 10E17	1 per 10E17
Annualised Failure Rate (AFR)	0.35%	0.35%	0.35%	0.35%
Limited Warranty (years)	5	5	5	5
Power Management				
+5/+12 V Max Start Current (A)	1.2/0.2	1.2/0.2	1.2/0.2	1.1/0.2
Average Idling Power (W)	4.7 W	4.5 W	4.9 W	4.7 W
Physical				
Height (in/mm, max)∃	0.591/15.00	0.591/15.00	0.591/15.00	0.591/15.00
Width (in/mm, max)3	2.760/70.10	2.760/70.10	2.760/70.10	2.760/70.10
Depth (in/mm, max) 3	3.955/100.45	3.955/100.45	3.955/100.45	3.955/100.45
Weight (lb/gm)	0.3638/165	0.3638/165	0.3638/165	0.3638/165
Carton Unit Quantity	10	10	10	10
Cartons per Pallet	90	90	90	90
Cartons per Layer	9	9	9	9

¹ Not all drives may be available in all countries. Seagate Secure drives meet ISO/IEC 27040 and NIST 800-88 standards and may require use of TCG-compliant host or controller support. 2 All performance measured at queue depth of 32 per PHY at beginning of life. System application performance may vary based on SAS host and prior system workload. 3 These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8223 (SAS models).





Specifications		Nytro 2550 — Mixed Workloads	
Capacity	3.8 TB	1.9 TB	960 GB
Standard Model	XS3840LE70085	XS1920LE70085	XS960LE70085
Seagate Secure™ SED Model1	XS3840LE70095	XS1920LE70095	XS960LE70095
Seagate Secure FIPS 140-2/Common Criteria Mode1	XS3840LE70105	XS1920LE70105	XS960LE70105
Seagate Instant Secure Erase (ISE) Model	XS3840LE70115	XS1920LE70115	XS960LE70115
Features			
Interface	SAS 12 Gb/s	SAS 12 Gb/s	SAS 12 Gb/s
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC
Form Factor	2.5 in × 15 mm	2.5 in × 15 mm	2.5 in × 15 mm
Performance			
Sequential Read (MB/s) Sustained, 128 KB ²	1050MB/s	1050MB/s	1050MB/s
Sequential Write (MB/s) Sustained, 128 KB ²	1,050	1,050	1,050
Random Read (IOPS) Sustained, 4 KB2	190,000	190,000	190,000
Random Write (IOPS) Sustained, 4 KB 2	7,500	7,500	7,500
Random 30% Write (IOPS) Sustained, 4 KB ²	160,000	160,000	135,000
Endurance/Reliability			
Lifetime Endurance (Drive Writes per Day)	3	3	3
Total Bytes Written (TB)	21,000	10,500	5,300
Non-recoverable Read Errors per Bits Read	1 per 10E17	1 per 10E17	1 per 10E17
Annualised Failure Rate (AFR)	0.35%	0.35%	0.35%
Limited Warranty (years)	5	5	5
Power Management			
+5/+12 V Max Start Current (A)	1.2/0.22	1.2/0.2	1.1/0.2
Average Idling Power (W)	4.8 W	4.9 W	4.7 W
Physical			
Height (in/mm, max) 3	0.591/15.00	0.591/15.00	0.591/15.00
Width (in/mm, max)3	2.760/70.10	2.760/70.10	2.760/70.10
Depth (in/mm, max)3	3.955/100.45	3.955/100.45	3.955/100.45
Weight (lb/gm)	0.3638/165	0.3638/165	0.3638/165
Carton Unit Quantity	10	10	10
Cartons per Pallet	90	90	90
Cartons per Layer	9	9	9

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