



2.5-in SSD DATA SHEET

Built for Fast Data Centre Applications

# NyTRO 2032 SAS SSD Series



The Seagate® NyTRO® 2032 SAS SSD delivers up to 7 TB in a 2.5-in × 15 mm form factor, a 12 Gb/s interface with speeds up to 840 MB/s, drive monitoring, government-grade encryption, and up to 3 DWPD for fast, scalable, secure performance for 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 × 15 mm form factor

Low latency and high QoS for better responsiveness and user experience

Easily manage and monitor SSD health with SeaChest

Two 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<sup>1</sup>

Built for easy integration with Linux and Microsoft OS

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



Specifications	Nytro 2332 — Scaled Endurance			
Capacity	7.68 TB	3.84 TB	1.92 TB	960GB
Standard Model	XS7680SE70124	XS3840SE70124	XS1920SE70124	XS960SE70124
Seagate Secure™ SED Model <sup>1</sup>	XS7680SE70134	XS3840SE70134	XS1920SE70134	XS960SE70134
Seagate Secure FIPS 140-2/Common Criteria Model <sup>1</sup>	XS7680SE70144	XS3840SE70144	XS1920SE70144	XS960SE70144
Seagate Instant Secure Erase (ISE) Model	XS7680SE70154	XS3840SE70154	XS1920SE70154	XS960SE70154
<b>Features</b>				
Interface (Single Port)	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 x 15 mm	2.5 in x 15 mm	2.5 in x 15 mm	2.5 in x 15 mm
<b>Performance</b>				
Sequential Read (MB/s) Sustained, 128 KB <sup>2</sup>	810	810	840	840
Sequential Write (MB/s) Sustained, 128 KB <sup>2</sup>	650	650	650	650
Random Read (IOPS) Sustained, 4KB <sup>2</sup>	175,000	175,000	180,000	180,000
Random Write (IOPS) Sustained, 4 KB <sup>2</sup>	45,000	45,000	53,000	53,000
Random 30% Write (IOPS) Sustained, 4 KB <sup>2</sup>	115,000	115,000	118,000	115,000
<b>Endurance/Reliability</b>				
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%
Warranty, Limited (years)	5	5	5	5
<b>Power Management</b>				
+5/+12 V Max Start Current (A)	0.80/0.21	0.80/0.21	0.80/0.21	0.80/0.21
Average Idling Power (W)	4.6	4.6	4.6	4.6
<b>Physical</b>				
Height (in/mm, max) <sup>3</sup>	0.591 in/15 mm	0.591 in/15 mm	0.591 in/15 mm	0.591 in/15 mm
Width (in/mm, max) <sup>3</sup>	2.76 in/70.1 mm	2.76 in/70.1 mm	2.76 in/70.1 mm	2.76 in/70.1 mm
Depth (in/mm, max) <sup>3</sup>	3.955 in/100.45 mm	3.955 in/100.45 mm	3.955 in/100.45 mm	3.955 in/100.45 mm
Weight (lb/g)	0.364 lb/165 g	0.364 lb/165 g	0.364 lb/165 g	0.364 lb/165 g
Carton Unit Quantity	10	10	10	10
Cartons per Pallet	90	90	90	90
Cartons per Layer	9	9	9	9

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at [www.sffcommittee.org](http://www.sffcommittee.org). For connector-related dimensions, see SFF-8223 (SAS models).



Specifications	Nytro 2532 — Mixed Workloads		
Capacity	3.84 TB	1.92 TB	960GB
Standard Model	XS3840LE70124	XS1920LE70124	XS960LE70124
Seagate Secure™ SED Model <sup>1</sup>	XS3840LE70134	XS1920LE70134	XS960LE70134
Seagate Secure FIPS 140-2/Common Criteria Model <sup>1</sup>	XS3840LE70144	XS1920LE70144	XS960LE70144
Seagate Instant Secure Erase (ISE) Model	XS3840LE70154	XS1920LE70154	XS960LE70154
Features			
Interface (Single Port)	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 x 15 mm	2.5 in x 15 mm	2.5 in x 15 mm
Performance			
Sequential Read (MB/s) Sustained, 128 KB <sup>2</sup>	840	840	840
Sequential Write (MB/s) Sustained, 128 KB <sup>2</sup>	650	650	650
Random Read (IOPS) Sustained, 4KB <sup>2</sup>	175,000	175,000	175,000
Random Write (IOPS) Sustained, 4 KB <sup>2</sup>	77,000	77,000	77,000
Random 30% Write (IOPS) Sustained, 4 KB <sup>2</sup>	152,000	143,000	143,000
Endurance/Reliability			
Lifetime Endurance (Drive Writes per Day)	3	3	3
Total Bytes Written (TB)	21,000	10,500	5300, 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%
Warranty, Limited (years)	5	5	5
Power Management			
+5/+12 V Max Start Current (A)	0.80/0.21	0.80/0.21	0.80/0.21
Average Idling Power (W)	4.6	4.6	4.6
Physical			
Height (in/mm, max) <sup>3</sup>	0.591 in/15 mm	0.591 in/15 mm	0.591 in/15 mm
Width (in/mm, max) <sup>3</sup>	2.76 in/70.1 mm	2.76 in/70.1 mm	2.76 in/70.1 mm
Depth (in/mm, max) <sup>3</sup>	3.955 in/100.45 mm	3.955 in/100.45 mm	3.955 in/100.45 mm
Weight (lb/g)	0.364 lb/165 g	0.364 lb/165 g	0.364 lb/165 g
Carton Unit Quantity	10	10	10
Cartons per Pallet	90	90	90
Cartons per Layer	9	9	9

<sup>1</sup> 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.

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<sup>3</sup> These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at [www.sffcommittee.org](http://www.sffcommittee.org). For connector-related dimensions, see SFF-8223 (SAS models).