



2.5-in SSD DATA SHEET

Built for Fast Data Center Applications

## NyTRO 2032 SAS SSD Series



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



### Key Advantages

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

High-density capacities of up to 7TB in a 2.5-in × 15mm 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<sup>™</sup> 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

### Best-Fit Applications

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

<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	7.68TB	3.84TB	1.92TB	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)	12 Gb/s SAS	12 Gb/s SAS	12 Gb/s SAS	12 Gb/s SAS
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	2.5 in x 15mm	2.5 in x 15mm	2.5 in x 15mm	2.5 in x 15mm
<b>Performance</b>				
Sequential Read (MB/s) Sustained, 128KB <sup>2</sup>	810	810	840	840
Sequential Write (MB/s) Sustained, 128KB <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, 4KB <sup>2</sup>	45,000	45,000	53,000	53,000
Random 30% Write (IOPS) Sustained, 4KB <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	7000	3500	1700
Nonrecoverable Read Errors per Bits Read	1 per 10E17	1 per 10E17	1 per 10E17	1 per 10E17
Annualized Failure Rate (AFR)	0.35%	0.35%	0.35%	0.35%
Warranty, Limited (years)	5	5	5	5
<b>Power Management</b>				
+5/+12V Max Start Current (A)	0.80/0.21	0.80/0.21	0.80/0.21	0.80/0.21
Average Idle Power (W)	4.6	4.6	4.6	4.6
<b>Physical</b>				
Height (in/mm, max) <sup>3</sup>	0.591in/15.00mm	0.591in/15.00mm	0.591in/15.00mm	0.591in/15.00mm
Width (in/mm, max) <sup>3</sup>	2.760in/70.10mm	2.760in/70.10mm	2.760in/70.10mm	2.760in/70.10mm
Depth (in/mm, max) <sup>3</sup>	3.955in/100.45mm	3.955in/100.45mm	3.955in/100.45mm	3.955in/100.45mm
Weight (lb/g)	0.364lb/165g	0.364lb/165g	0.364lb/165g	0.364lb/165g
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	3.84TB	1.92TB	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
<b>Features</b>			
Interface (Single Port)	12 Gb/s SAS	12 Gb/s SAS	12 Gb/s SAS
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC
Form Factor	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm
<b>Performance</b>			
Sequential Read (MB/s) Sustained, 128KB <sup>2</sup>	840	840	840
Sequential Write (MB/s) Sustained, 128KB <sup>2</sup>	650	650	650
Random Read (IOPS) Sustained, 4KB <sup>2</sup>	175,000	175,000	175,000
Random Write (IOPS) Sustained, 4KB <sup>2</sup>	77,000	77,000	77,000
Random 30% Write (IOPS) Sustained, 4KB <sup>2</sup>	152,000	143,000	143,000
<b>Endurance/Reliability</b>			
Lifetime Endurance (Drive Writes per Day)	3	3	3
Total Bytes Written (TB)	21,000	10,500	5300
Nonrecoverable Read Errors per Bits Read	1 per 10E17	1 per 10E17	1 per 10E17
Annualized Failure Rate (AFR)	0.35%	0.35%	0.35%
Warranty, Limited (years)	5	5	5
<b>Power Management</b>			
+5/+12V Max Start Current (A)	0.80/0.21	0.80/0.21	0.80/0.21
Average Idle Power (W)	4.6	4.6	4.6
<b>Physical</b>			
Height (in/mm, max) <sup>3</sup>	0.591in/15.00mm	0.591in/15.00mm	0.591in/15.00mm
Width (in/mm, max) <sup>3</sup>	2.760in/70.10mm	2.760in/70.10mm	2.760in/70.10mm
Depth (in/mm, max) <sup>3</sup>	3.955in/100.45mm	3.955in/100.45mm	3.955in/100.45mm
Weight (lb/g)	0.364lb/165g	0.364lb/165g	0.364lb/165g
Carton Unit Quantity	10	10	10
Cartons per Pallet	90	90	90
Cartons per Layer	9	9	9

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3 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).

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