



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.



## 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

### 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 × 15 mm                | 2.5 in × 15 mm     | 2.5 in × 15 mm     | 2.5 in × 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   | 3.84TB                       | 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 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>        | 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            |
| <b>Endurance/Reliability</b>                                 |                              |                    |                    |
| Lifetime Endurance (Drive Writes per Day)                    | 3                            | 3                  | 3                  |
| Total Bytes Written (TB)                                     | 21,000                       | 10,500             | 5,300, 5300        |
| 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                  |
| <b>Power Management</b>                                      |                              |                    |                    |
| +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                |
| <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     |
| 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).

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