



DATA SHEET

Lightspeed. Solid. Impressive.

NyTRO 3000 SAS SSD



The Seagate® NyTRO® 3000 SAS SSD family includes the next generation of high-capacity, high-performance SAS SSDs designed with multiple endurance offerings optimised for demanding enterprise applications and improved TCO.



Key Features and Benefits

- Dual-port and wide-port 12 Gb/s SAS interface
- Industry-leading storage density range up to 15 TB
- Ultra-fast performance of up to 2,100 MB/s
- Endurance options for a wide range of enterprise workloads

Best-Fit Applications

- Server virtualisation
- OLTP databases
- Software-defined storage
- All flash arrays
- Caching and tiering



Industry-Leading Performance up to 2,100 MB/s

The NyTRO 3000 SSD family delivers ultra-fast, consistent and easily scalable performance that saturates dual 12 Gb/s SAS bandwidth, providing an effective 24 Gb/s wide-port interface along with legacy sign and dual-port dynamic configurations. By removing the storage bottleneck, it significantly improves overall system and application responsiveness and provides consistent low-latency data access, reliably accelerating enterprise and cloud storage systems.

High-Capacity Solution With Multiple Endurance Offerings

Enterprise applications have different storage workload requirements for performance, endurance and cost. The optimal storage solution for databases or virtualisation with a typically mixed read/write workload, for example, requires the highest random read/write IOPS, ultra-low latency and high endurance. Content streaming applications with highly intensive read workloads, however, demand high sequential read throughput and high storage density at the lowest cost per gigabyte. The NyTRO 3000 SSD family offers an industry-leading range of capacities up to 15 TB in a 2.5-inch form factor, to increase enterprise storage density in data centres. It also enables lower TCO by offering four endurance categories to match cost and performance requirements of all enterprise workloads.

Enhanced Enterprise Reliability, Data Protection and Security

The NyTRO 3000 SSD family leverages Seagate's decades of enterprise SAS expertise to deliver the highest levels of reliability, data integrity and data security for mission-critical enterprise applications. The NyTRO 3000 SSD family helps deliver exceptional data protection and reliability by integrating full internal and external data path protection (T10 DIF), Seagate's advanced ECC algorithms, media life-cycle management, and other techniques for extending flash memory life. With advanced power-loss data protection, the NyTRO 3000 SSD maintains high data integrity to help prevent loss of user data in the event of unexpected power interruptions. The NyTRO 3000 SSD family implements security features to prevent unauthorised access to a drive and safeguards stored data with three levels of security, including Secure Downloads & Diagnostics, TCG-compliant Self-Encrypting Drive and FIPS drive.¹

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



| Specifications | Nytro 3730 — Mainstream Endurance | | | |
|--|-----------------------------------|--------------------|--------------------|--------------------|
| Capacity | 3.2TB | 1.6TB | 800GB | 400GB |
| Standard Model Number ¹ | XS3200ME70003 | XS1600ME10003 | XS800ME10003 | XS400ME10003 |
| Seagate Secure™ SED Model ^{1,2} | XS3200ME70013 | XS1600ME10013 | XS800ME10013 | XS400ME10013 |
| Seagate Secure FIPS 140-2 Model ^{1,2} | XS3200ME70023 | XS1600ME10023 | XS800ME10023 | XS400ME10023 |
| Interface | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS |
| NAND Flash Type | 3D eMLC | 3D eMLC | 3D eMLC | 3D eMLC |
| Form Factor | 2.5 in × 15 mm | 2.5 in × 7 mm | 2.5 in × 7 mm | 2.5 in × 7 mm |
| Performance at Max Power Limit | | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 2,000 | 2,000 | 2,000 | 2,000 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 400,000 | 400,000 | 400,000 | 345,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 260,000 | 235,000 | 170,000 | 120,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 290,000 | 290,000 | 290,000 | 255,000 |
| Performance at 9W Power Limit | | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 1,260 | 1,260 | 1,260 | 1,220 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 375,000 | 375,000 | 375,000 | 345,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 175,000 | 185,000 | 170,000 | 120,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 270,000 | 270,000 | 270,000 | 225,000 |
| Average Latency (µs) ³ | 85 | 85 | 85 | 85 |
| Endurance/Reliability | | | | |
| Lifetime Endurance (Drive Writes per Day) | 10 | 10 | 10 | 10 |
| Non-recoverable Read Errors per Bits Read | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 |
| 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) | 0.44/0.47 | 0.44/0.42 | 0.44/0.41 | 0.44/0.41 |
| Configurable Power Limit Settings (W) | 7 to 14 | 7 to 14 | 7 to 14 | 7 to 14 |
| Average Idling Power (W) | 3 | 3 | 3 | 3 |
| Physical | | | | |
| Height (mm/in, max) ⁵ | 15 mm/0.591 in | 7 mm/0.276 in | 7 mm/0.276 in | 7 mm/0.276 in |
| Width (mm/in, max) ⁵ | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in |
| Depth (mm/in, max) ⁵ | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in |
| Weight (lb/g) | 165 g/0.364 lb | 85 g/0.187 lb | 85 g/0.187 lb | 80 g/0.176 lb |
| Carton Unit Quantity | 10 | 10 | 10 | 10 |
| Cartons per Pallet / Cartons per Layer | 90/9 | 90/9 | 90/9 | 90/9 |

1 Nytro 3130 — Tunable Endurance drives only: JEDEC 218 Drive Writes per Day (DWPd) endurance adjustable by modifying user capacity.

2 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.

3 Dual-port performance. 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.

4 The single-port performance will be the same as the dual-port performance up to the limits of the single port interface as follows: 1,100 MB/s of 64 KB sequential reads and writes; 225,000 IOPS of 4KB random reads and writes.

5 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 3530 — Light Endurance | | | | |
|--|-----------------------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity | 6.4TB | 3.2TB | 1.6TB | 800GB | 400GB |
| Standard Model Number ¹ | XS6400LE70003 | XS3200LE10003 | XS1600LE10003 | XS800LE10003 | XS400LE10003 |
| Seagate Secure™ SED Model ^{1,2} | XS6400LE70013 | XS3200LE10013 | XS1600LE10013 | XS800LE10013 | XS400LE10013 |
| Seagate Secure FIPS 140-2 Model ^{1,2} | XS6400LE70023 | — | XS1600LE10023 | — | — |
| Interface | Dual 12 Gb/s SAS, Dual 12Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS |
| NAND Flash Type | 3D eMLC | 3D eMLC | 3D eMLC | 3D eMLC | 3D eMLC |
| Form Factor | 2.5 in × 15 mm, 2.5 in × 15mm | 2.5 in × 7 mm | 2.5 in × 7 mm | 2.5 in × 7 mm | 2.5 in × 7 mm |
| Performance at Max Power Limit | | | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 2,000 | 2,000 | 2,000 | 1,710 | 810 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 400,000 | 400,000 | 400,000 | 400,000 | 245,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 140,000 | 150,000 | 145,000 | 95,000 | 45,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 270,000 | 270,000 | 290,000 | 250,000 | 120,000 |
| Performance at 9W Power Limit | | | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 1,260 | 1,260 | 1,260 | 1,260 | 810 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 375,000 | 375,000 | 375,000 | 375,000 | 245,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 80,000 | 80,000 | 115,000 | 95,000 | 45,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 175,000 | 175,000 | 225,000 | 225,000 | 120,000 |
| Average Latency (µs) ³ | 85 | 85 | 85 | 85 | 85 |
| Endurance/Reliability | | | | | |
| Lifetime Endurance (Drive Writes per Day) | 3 | 3 | 3 | 3 | 3 |
| Non-recoverable Read Errors per Bits Read | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 |
| Annualised Failure Rate (AFR) | 0.35% | 0.35% | 0.35% | 0.35% | 0.35% |
| Limited Warranty (years) | 5 | 5 | 5 | 5 | 5 |
| Power Management | | | | | |
| +5/+12 V Max Start Current (A) | 0.44/0.47 | 0.44/0.47 | 0.44/0.42 | 0.44/0.41 | 0.44/0.41 |
| Configurable Power Limit Settings (W) | 7 to 14 | 7 to 14 | 7 to 14 | 7 to 14 | 7 to 14 |
| Average Idling Power (W) | 3 | 3 | 3 | 3 | 3 |
| Physical | | | | | |
| Height (mm/in, max) ⁵ | 15 mm/0.591 in | 7 mm/0.276 in | 7 mm/0.276 in | 7 mm/0.276 in | 7 mm/0.276 in |
| Width (mm/in, max) ⁵ | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in |
| Depth (mm/in, max) ⁵ | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in |
| Weight (lb/g) | 165 g/0.364 lb | 85 g/0.187 lb | 85 g/0.187 lb | 85 g/0.187 lb | 80 g/0.176 lb |
| Carton Unit Quantity | 10 | 10 | 10 | 10 | 10 |
| Cartons per Pallet / Cartons per Layer | 90/9 | 90/9 | 90/9 | 90/9 | 90/9 |

1 Nytro 3130 — Tunable Endurance drives only: JEDEC 218 Drive Writes per Day (DWPD) endurance adjustable by modifying user capacity.

2 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.

3 Dual-port performance. 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.

4 The single-port performance will be the same as the dual-port performance up to the limits of the single port interface as follows: 1,100 MB/s of 64 KB sequential reads and writes; 225,000 IOPS of 4KB random reads and writes.

5 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 3330 — Scaled Endurance | | | | |
|--|-------------------------------|--------------------|--------------------|--------------------|--------------------|
| Capacity | 15.36TB | 7.68TB | 3.84TB | 1.92TB | 960GB |
| Standard Model Number ¹ | XS15360SE70103 | XS7680SE70103 | XS3840SE10103 | XS1920SE10103 | XS960SE10003 |
| Seagate Secure™ SED Model ^{1,2} | XS15360SE70113 | XS7680SE70113 | XS3840SE10113 | XS1920SE10113 | XS960SE10013 |
| Seagate Secure FIPS 140-2 Model ^{1,2} | — | — | — | XS1920SE10123 | — |
| Interface | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS |
| NAND Flash Type | 3D eTLC | 3D eTLC | 3D eTLC | 3D eTLC | 3D eTLC |
| Form Factor | 2.5 in × 15 mm | 2.5 in × 15 mm | 2.5 in × 7 mm | 2.5 in × 7 mm | 2.5 in × 7 mm |
| Performance at Max Power Limit | | | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 1,690 | 1,850 | 1,720 | 1,200 | 640 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 260,000 | 400,000 | 400,000 | 375,000 | 245,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 60,000 | 115,000 | 115,000 | 70,000 | 35,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 150,000 | 230,000 | 230,000 | 185,000 | 95,000 |
| Performance at 9W Power Limit | | | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 990 | 990 | 990 | 990 | 650 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 260,000 | 275,000 | 275,000 | 275,000 | 245,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 45,000 | 55,000 | 55,000 | 55,000 | 35,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 105,000 | 125,000 | 125,000 | 125,000 | 95,000 |
| Average Latency (µs) ³ | 120 | 120 | 120 | 120 | 120 |
| Endurance/Reliability | | | | | |
| Lifetime Endurance (Drive Writes per Day) | 1 | 1 | 1 | 1 | 1 |
| Non-recoverable Read Errors per Bits Read | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 |
| Annualised Failure Rate (AFR) | 0.35% | 0.35% | 0.35% | 0.35% | 0.35% |
| Limited Warranty (years) | 5 | 5 | 5 | 5 | 5 |
| Power Management | | | | | |
| +5/+12 V Max Start Current (A) | 0.44/0.47 | 0.44/0.47 | 0.44/0.42 | 0.44/0.41 | 0.44/0.41 |
| Configurable Power Limit Settings (W) | 7 to 14 | 7 to 14 | 7 to 14 | 7 to 14 | 7 to 14 |
| Average Idling Power (W) | 3 | 3 | 3 | 3 | 3 |
| Physical | | | | | |
| Height (mm/in, max) ⁵ | 15 mm/0.591 in | 15 mm/0.591 in | 7 mm/0.276 in | 7 mm/0.276 in | 7 mm/0.276 in |
| Width (mm/in, max) ⁵ | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in |
| Depth (mm/in, max) ⁵ | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in |
| Weight (lb/g) | 165 g/0.364 lb | 165 g/0.364 lb | 85 g/0.187 lb | 80 g/0.176 lb | 80 g/0.176 lb |
| Carton Unit Quantity | 10 | 10 | 10 | 10 | 10 |
| Cartons per Pallet / Cartons per Layer | 90/9 | 90/9 | 90/9 | 90/9 | 90/9 |

1 Nytro 3130 — Tunable Endurance drives only: JEDEC 218 Drive Writes per Day (DWPD) endurance adjustable by modifying user capacity.

2 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.

3 Dual-port performance. 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.

4 The single-port performance will be the same as the dual-port performance up to the limits of the single port interface as follows: 1,100 MB/s of 64 KB sequential reads and writes; 225,000 IOPS of 4KB random reads and writes.

5 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 3130 — Tunable Endurance | | |
|--|--------------------------------|--------------------|--------------------|
| Capacity | 15.36TB | 7.68TB | 3.84TB |
| Standard Model Number ¹ | XS15360TE70003 | XS7680TE70003 | XS3840TE10003 |
| Seagate Secure™ SED Model ^{1,2} | XS15360TE70013 | XS7680TE70013 | XS3840TE10013 |
| Seagate Secure FIPS 140-2 Model ^{1,2} | XS15360TE70023 | XS7680TE70023 | XS3840TE10023 |
| Interface | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS | Dual 12 Gb/s SAS |
| NAND Flash Type | 3D eTLC | 3D eTLC | 3D eTLC |
| Form Factor | 2.5 in × 15 mm | 2.5 in × 15 mm | 2.5 in × 7 mm |
| Performance at Max Power Limit | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 1,780 | 1,850 | 1,700 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 260,000 | 400,000 | 400,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 30,000 | 70,000 | 60,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 90,000 | 170,000 | 150,000 |
| Performance at 9W Power Limit | | | |
| Sequential Read (MB/s) Sustained, 128 KB ^{3,4} | 2,100 | 2,100 | 2,100 |
| Sequential Write (MB/s) Sustained, 128 KB ^{3,4} | 990 | 990 | 990 |
| Random Read (IOPS) Sustained, 4KB ^{3,4} | 260,000 | 275,000 | 275,000 |
| Random Write (IOPS) Sustained, 4KB ^{3,4} | 15,000 | 30,000 | 30,000 |
| Random 30% Write (IOPS) Sustained, 4KB ^{3,4} | 45,000 | 80,000 | 80,000 |
| Average Latency (µs) ³ | 120 | 120 | 120 |
| Endurance/Reliability | | | |
| Lifetime Endurance (Drive Writes per Day) | 0.25 | 0.25 | 0.25 |
| Non-recoverable Read Errors per Bits Read | 1 per 10E18 | 1 per 10E18 | 1 per 10E18 |
| 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) | 0.44/0.47 | 0.44/0.47 | 0.44/0.42 |
| Configurable Power Limit Settings (W) | 7 to 14 | 7 to 14 | 7 to 14 |
| Average Idling Power (W) | 3 | 3 | 3 |
| Physical | | | |
| Height (mm/in, max) ⁵ | 15 mm/0.591 in | 15 mm/0.591 in | 7 mm/0.276 in |
| Width (mm/in, max) ⁵ | 70.1 mm/2.76 in | 70.1 mm/2.76 in | 70.1 mm/2.76 in |
| Depth (mm/in, max) ⁵ | 100.45 mm/3.955 in | 100.45 mm/3.955 in | 100.45 mm/3.955 in |
| Weight (lb/g) | 165 g/0.364 lb | 165 g/0.364 lb | 85 g/0.187 lb |
| Carton Unit Quantity | 10 | 10 | 10 |
| Cartons per Pallet / Cartons per Layer | 90/9 | 90/9 | 90/9 |

1 Nytro 3130 — Tunable Endurance drives only: JEDEC 218 Drive Writes per Day (DWPD) endurance adjustable by modifying user capacity.

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3 Dual-port performance. 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.

4 The single-port performance will be the same as the dual-port performance up to the limits of the single port interface as follows: 1,100 MB/s of 64 KB sequential reads and writes; 225,000 IOPS of 4KB random reads and writes.

5 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).

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