

2.5-in SSD DATA SHEET

## Nytro 5060 NVMe SSD Series



Introducing Nytro® 5060—the next-gen, high-performance NVMe™ SSD engineered to deliver consistently fast throughput and latency, increased storage density, improved QoS, and high-power efficiency for enterprise and data center applications. Experience high-capacity storage while maintaining the highest levels of data integrity, data security, and endurance for critical business applications.



### Best-Fit Applications

- Server virtualization
- OLTP databases
- Software-defined storage
- All-flash arrays
- Caching and tiering
- AI and machine learning

**Best-in-class performance** — PCIe Gen5 NVMe SSD doubles the throughput and IOPS of the previous generation, delivering the next level of performance.

**Blistering 14.9GB/s bandwidth and up to 3.3M IOPS** removes data bottleneck and provides consistent response times, meeting the demanding requirement of high-performance applications.

**Boosted capacity in ultra-dense environments** — up to 30.72TB in a 2.5-inch form factor and up to 15.36TB in a E3.S form factor.

**Highly optimized** Nytro 5360 is designed for read-intensive workloads, while Nytro 5550 is built to endure mixed workloads. .

**Single-port or dual-port interface**—The Nytro 5060 offers the choice between dual-port models (5060H) designed for high availability, or single-port models (5060S) that meet your applications needs.

**Low latency and high quality of service** deliver improved responsiveness and enhanced user experience.

**Effortless serviceability and maintenance** with no downtime requirements, and hot-swap capability for easy SSD addition, removal, or replacement.

**Hardware-based encryption** — Self-Encrypting Drive (SED) models<sup>1</sup> support the TCG standard to help keep valuable data secure.

**Robust reliability and endurance** with 1 and 3 DWPD at 2.5M MTBF—move massive enterprise data for the long haul.

**OCP NVMe SSD 2.0 support<sup>2</sup>** for efficient and scalable deployment in data centers.

**Operating system friendly** to easily integrate with Linux and Microsoft.

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

<sup>2</sup> Complies with most requirements of the Open Compute Project Datacenter NVMe SSD Specification 2.0



Specifications	Nytro 5560H 2.5-inch—Mixed Use				
Capacity	25.6TB	12.8TB	6.4TB	3.2TB	1.6TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP25600LE70006	XP12800LE70006	XP6400LE70006	XP3200LE70006	XP1600LE70006
SED Model <sup>1</sup>	XP25600LE70016	XP12800LE70016	XP6400LE70016	XP3200LE70016	XP1600LE70016
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP25600LE70026	XP12800LE70026	XP6400LE70026	XP3200LE70026	XP1600LE70026
<b>Features</b>					
Interface (Single Port)	-	-	-	-	-
Interface (Dual Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
NAND Flash Type	3D eTLC	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	2.5 in x 15mm
<b>Performance</b>					
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	750,000	900,000	900,000	850,000	450,000
Average Read Latency (µs), 4KB QD1	65	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10	10
<b>Endurance/Reliability</b>					
Lifetime Endurance (Drive Writes per Day)	3	3	3	3	3
Total Bytes Written (TB)	140,000	70,000	35,000	17,500	8,700
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5	5
<b>Power Management</b>					
12V Average Active Power - Read (W)	21	19	17	17	16
12V Average Active Power - Write (W)	24	23	21	21	15
Average Idle Power (W)	5	5	5	5	5
<b>Environmental</b>					
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500	1500
<b>Physical</b>					
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	170/0.375	170/0.375	200/0.441	200/0.441	190/0.419
Carton Unit Quantity	10	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5360H 2.5-inch—Read Intensive				
Capacity	30.72TB	15.36TB	7.68TB	3.84TB	1.92TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP30720LE70006	XP15360SE70006	XP7680SE70006	XP3840SE70006	XP1920SE70006
SED Model <sup>1</sup>	XP30720SE70016	XP15360SE70016	XP7680SE70016	XP3840SE70016	XP1920SE70016
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP30720SE70026	XP15360SE70026	XP7680SE70026	XP3840SE70026	XP1920SE70026
<b>Features</b>					
Interface (Single Port)	-	-	-	-	-
Interface (Dual Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm
<b>Performance</b>					
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	300,000	450,000	400,000	350,000	200,000
Average Read Latency (µs), 4KB QD1	65	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10	10
<b>Endurance/Reliability</b>					
Lifetime Endurance (Drive Writes per Day)	1	1	1	1	1
Total Bytes Written (TB)	56,000	28,000	14,000	7,000	3,500
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5	5
<b>Power Management</b>					
12V Average Active Power - Read (W)	21	19	17	17	16
12V Average Active Power - Write (W)	24	23	21	21	15
Average Idle Power (W)	5	5	5	5	5
<b>Environmental</b>					
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500	1500
<b>Physical</b>					
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	170/0.375	170/0.375	200/0.441	200/0.441	190/0.419
Carton Unit Quantity	10	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5560S 2.5-inch—Mixed Use				
Capacity	25.6TB	12.8TB	6.4TB	3.2TB	1.6TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP25600LE70036	XP12800LE70036	XP6400LE70036	XP3200LE70036	XP1600LE70036
SED Model <sup>1</sup>	XP25600LE70046	XP12800LE70046	XP6400LE70046	XP3200LE70046	XP1600LE70046
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP25600LE70056	XP12800LE70056	XP6400LE70056	XP3200LE70056	XP1600LE70056
Features					
Interface (Single Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
Interface (Dual Port)	-	-	-	-	-
NAND Flash Type	3D eTLC	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	2.5 in x 15mm
Performance					
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	750,000	900,000	900,000	850,000	450,000
Average Read Latency (µs), 4KB QD1	65	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10	10
Endurance/Reliability					
Lifetime Endurance (Drive Writes per Day)	3	3	3	3	3
Total Bytes Written (TB)	140,000	70,000	35,000	17,500	8,700
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5	5
Power Management					
12V Average Active Power - Read (W)	21	19	17	17	16
12V Average Active Power - Write (W)	24	23	21	21	15
Average Idle Power (W)	5	5	5	5	5
Environmental					
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500	1500
Physical					
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	170/0.375	170/0.375	200/0.441	200/0.441	190/0.419
Carton Unit Quantity	10	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5360S 2.5-inch—Read Intensive				
Capacity	30.72TB	15.36TB	7.68TB	3.84TB	1.92TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP30720SE70036	XP15360SE70036	XP7680SE70036	XP3840SE70036	XP1920SE70036
SED Model <sup>1</sup>	XP30720SE70046	XP15360SE70046	XP7680SE70046	XP3840SE70046	XP1920SE70046
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP30720SE70056	XP15360SE70056	XP7680SE70056	XP3840SE70056	XP1920SE70056
Features					
Interface (Single Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
Interface (Dual Port)	-	-	-	-	-
NAND Flash Type	3D eTLC	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	2.5 in x 15mm
Performance					
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	300,000	450,000	400,000	350,000	200,000
Average Read Latency (µs), 4KB QD1	65	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10	10
Endurance/Reliability					
Lifetime Endurance (Drive Writes per Day)	1	1	1	1	1
Total Bytes Written (TB)	56,000	28,000	14,000	7,000	3,500
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5	5
Power Management					
12V Average Active Power - Read (W)	21	19	17	17	16
12V Average Active Power - Write (W)	24	23	21	21	15
Average Idle Power (W)	5	5	5	5	5
Environmental					
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500	1500
Physical					
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	170/0.375	170/0.375	200/0.441	200/0.441	190/0.419
Carton Unit Quantity	10	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5560H E3.S—Mixed Use			
Capacity	12.8TB	6.4TB	3.2TB	1.6TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP12800LEC0006	XP6400LEC0006	XP3200LEC0006	XP1600LEC0006
SED Model <sup>1</sup>	XP12800LEC0016	XP6400LEC0016	XP3200LEC0016	XP1600LEC0016
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP12800LEC0026	XP6400LEC0026	XP3200LEC0026	XP1600LEC0026
<b>Features</b>				
Interface (Single Port)	-	-	-	-
Interface (Dual Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	E3.S 1T	E3.S 1T	E3.S 1T	E3.S 1T
<b>Performance</b>				
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	900,000	900,000	850,000	450,000
Average Read Latency (µs), 4KB QD1	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10
<b>Endurance/Reliability</b>				
Lifetime Endurance (Drive Writes per Day)	3	3	3	3
Total Bytes Written (TB)	70,000	35,000	17,500	8,700
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5
<b>Power Management</b>				
12V Average Active Power - Read (W)	20	17	17	17
12V Average Active Power - Write (W)	23	22	22	15
Average Idle Power (W)	5	5	5	5
<b>Environmental</b>				
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500
<b>Physical</b>				
Height (mm/in, max)	7.65/0.30	7.65/0.30	7.65/0.30	7.65/0.30
Width (mm/in, max)	76.20/3.00	76.20/3.00	76.20/3.00	76.20/3.00
Depth (mm/in, max)	113.10/4.45	113.10/4.45	113.10/4.45	113.10/4.45
Weight (g/lb, max)	120/0.265	120/0.265	115/0.254	110/0.243
Carton Unit Quantity	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5360H E3.S—Read Intensive			
Capacity	15.36TB	7.68TB	3.84TB	1.92TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP15360SEC0006	XP7680SEC0006	XP3840SEC0006	XP1920SEC0006
SED Model <sup>1</sup>	XP15360SEC0016	XP7680SEC0016	XP3840SEC0016	XP1920SEC0016
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP15360SEC0026	XP7680SEC0026	XP3840SEC0026	XP1920SEC0026
<b>Features</b>				
Interface (Single Port)	-	-	-	-
Interface (Dual Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	E3.S 1T	E3.S 1T	E3.S 1T	E3.S 1T
<b>Performance</b>				
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	450,000	500,000	350,000	180,000
Average Read Latency (µs), 4KB QD1	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10
<b>Endurance/Reliability</b>				
Lifetime Endurance (Drive Writes per Day)	1	1	1	1
Total Bytes Written (TB)	28,000	14,000	7,000	3,500
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5
<b>Power Management</b>				
12V Average Active Power - Read (W)	20	17	17	17
12V Average Active Power - Write (W)	23	22	21	15
Average Idle Power (W)	5	5	5	5
<b>Environmental</b>				
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500
<b>Physical</b>				
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	120/0.265	120/0.265	115/0.254	110/0.243
Carton Unit Quantity	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5560S 2.5-inch—Mixed Use			
Capacity	12.8TB	6.4TB	3.2TB	1.6TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP12800LEC0076	XP6400LEC0076	XP3200LEC0076	XP1600LEC0076
SED Model <sup>1</sup>	XP12800LEC0046	XP6400LEC0046	XP3200LEC0046	XP1600LEC0046
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP12800LEC0056	XP6400LEC0056	XP3200LEC0056	XP1600LEC0056
<b>Features</b>				
Interface (Single Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
Interface (Dual Port)	-	-	-	-
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	E3.S 1T	E3.S 1T	E3.S 1T	E3.S 1T
<b>Performance</b>				
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	900,000	900,000	850,000	450,000
Average Read Latency (µs), 4KB QD1	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10
<b>Endurance/Reliability</b>				
Lifetime Endurance (Drive Writes per Day)	3	3	3	3
Total Bytes Written (TB)	70,000	35,000	17,500	8,700
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5
<b>Power Management</b>				
12V Average Active Power - Read (W)	20	17	17	17
12V Average Active Power - Write (W)	23	22	22	15
Average Idle Power (W)	5	5	5	5
<b>Environmental</b>				
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500
<b>Physical</b>				
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	120/0.265	120/0.265	115/0.254	110/0.243
Carton Unit Quantity	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.



Specifications	Nytro 5360S E3.S—Read Intensive			
Capacity	15.36TB	7.68TB	3.84TB	1.92TB
Standard Model - Seagate Instant Secure Erase (ISE) Model	XP15360SEC0076	XP7680SEC0076	XP3840SEC0076	XP1920SEC0076
SED Model <sup>1</sup>	XP15360SEC0046	XP7680SEC0046	XP3840SEC0046	XP1920SEC0046
FIPS 140-3/Common Criteria Model <sup>1,2</sup>	XP15360SEC0056	XP7680SEC0056	XP3840SEC0056	XP1920SEC0056
<b>Features</b>				
Interface (Single Port)	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0	PCIe Gen5 x4, NVMe™ 2.0
Interface (Dual Port)	-	-	-	-
NAND Flash Type	3D eTLC	3D eTLC	3D eTLC	3D eTLC
Form Factor	E3.S 1T	E3.S 1T	E3.S 1T	E3.S 1T
<b>Performance</b>				
Sequential Read (MB/s) Sustained, 128KB <sup>3</sup>	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB <sup>3</sup>	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB <sup>4</sup>	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB <sup>4</sup>	450,000	500,000	350,000	180,000
Average Read Latency (µs), 4KB QD1	60	60	60	60
Average Write Latency (µs), 4KB QD1	10	10	10	10
<b>Endurance/Reliability</b>				
Lifetime Endurance (Drive Writes per Day)	1	1	1	1
Total Bytes Written (TB)	28,000	14,000	7,000	3,500
Nonrecoverable Read Errors per Bits Read	1 per 10E18	1 per 10E18	1 per 10E18	1 per 10E18
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000
Limited Warranty (years)	5	5	5	5
<b>Power Management</b>				
12V Average Active Power - Read (W)	20	17	17	17
12V Average Active Power - Write (W)	23	22	21	15
Average Idle Power (W)	5	5	5	5
<b>Environmental</b>				
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70
Temperature, nonoperating	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Temperature Change Rate/Hr, Max (°C)	30	30	30	30
Shock, 0.5ms (Gs)	1500	1500	1500	1500
<b>Physical</b>				
Height (mm/in, max)	14.9/0.587	14.9/0.587	14.9/0.587	14.9/0.587
Width (mm/in, max)	70.1/2.760	70.1/2.760	70.1/2.760	70.1/2.760
Depth (mm/in, max)	100.4/3.953	100.4/3.953	100.4/3.953	100.4/3.953
Weight (g/lb, max)	120/0.265	120/0.265	115/0.254	110/0.243
Carton Unit Quantity	10	10	10	10

<sup>1</sup> Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.

<sup>2</sup> FIPS 140-3 & Common Criteria validation status pending

<sup>3</sup> Maximum performance at beginning of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.

<sup>4</sup> Maximum performance at beginning of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.

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