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[1] 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[2] for efficient and scalable deployment in data centers.

Operating system friendly to easily integrate with Linux and Microsoft.

1 Self-Encrypting Drives (SED) are not available in all models or countries. May require TCG-compliant host or controller support.
2 Complies with most requirements of the Open Compute Project Datacenter NVMe SSD Specification 2.0

NYTRO™

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[1]	XP25600LE70016	XP12800LE70016	XP6400LE70016	XP3200LE70016	XP1600LE70016
FIPS 140-3/Common Criteria Model[1,2]	XP25600LE70026	XP12800LE70026	XP6400LE70026	XP3200LE70026	XP1600LE70026
Features					
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
Performance					
Sequential Read (MB/s) Sustained, 128KB[3]	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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

1 Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.
2 FIPS 140-3 & Common Criteria validation status pending
3 Maximum performance at begining of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.
4 Maximum performance at begining of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.

NYTRO™

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	XP30720SE70006	XP15360SE70006	XP7680SE70006	XP3840SE70006	XP1920SE70006
SED Model[1]	XP30720SE70016	XP15360SE70016	XP7680SE70016	XP3840SE70016	XP1920SE70016
FIPS 140-3/Common Criteria Model[1,2]	XP30720SE70026	XP15360SE70026	XP7680SE70026	XP3840SE70026	XP1920SE70026
Features					
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
Performance					
Sequential Read (MB/s) Sustained, 128KB[3]	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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

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

NYTRO™

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[1]	XP25600LE70046	XP12800LE70046	XP6400LE70046	XP3200LE70046	XP1600LE70046
FIPS 140-3/Common Criteria Model[1,2]	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 × 15mm	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm
Performance					
Sequential Read (MB/s) Sustained, 128KB[3]	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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

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

NYTRO™

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[1]	XP30720SE70046	XP15360SE70046	XP7680SE70046	XP3840SE70046	XP1920SE70046
FIPS 140-3/Common Criteria Model[1,2]	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 × 15mm	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm	2.5 in × 15mm
Performance					
Sequential Read (MB/s) Sustained, 128KB[3]	14,100	14,900	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	7,600	8,500	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,300,000	2,800,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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

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2 FIPS 140-3 & Common Criteria validation status pending
3 Maximum performance at begining of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.
4 Maximum performance at begining of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.

NYTRO™

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[1]	XP12800LEC0016	XP6400LEC0016	XP3200LEC0016	XP1600LEC0016
FIPS 140-3/Common Criteria Model[1,2]	XP12800LEC0026	XP6400LEC0026	XP3200LEC0026	XP1600LEC0026
Features				
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
Performance				
Sequential Read (MB/s) Sustained, 128KB[3]	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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
Endurance/Reliability				
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
Power Management				
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
Environmental				
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
Physical				
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

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2 FIPS 140-3 & Common Criteria validation status pending
3 Maximum performance at begining of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.
4 Maximum performance at begining of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.

NYTRO™

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[1]	XP15360SEC0016	XP7680SEC0016	XP3840SEC0016	XP1920SEC0016
FIPS 140-3/Common Criteria Model[1,2]	XP15360SEC0026	XP7680SEC0026	XP3840SEC0026	XP1920SEC0026
Features				
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
Performance				
Sequential Read (MB/s) Sustained, 128KB[3]	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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
Endurance/Reliability				
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
Power Management				
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
Environmental				
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
Physical				
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

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2 FIPS 140-3 & Common Criteria validation status pending
3 Maximum performance at begining of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.
4 Maximum performance at begining of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.

NYTRO™

Specifications	Nytro 5560S E3.S—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[1]	XP12800LEC0046	XP6400LEC0046	XP3200LEC0046	XP1600LEC0046
FIPS 140-3/Common Criteria Model[1,2]	XP12800LEC0056	XP6400LEC0056	XP3200LEC0056	XP1600LEC0056
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
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
Performance				
Sequential Read (MB/s) Sustained, 128KB[3]	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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
Endurance/Reliability				
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
Power Management				
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
Environmental				
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
Physical				
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

1 Self-Encrypting Drives (SED) and FIPS 140-3 models may not be available in all countries. May require TCG-compliant host or controller support.
2 FIPS 140-3 & Common Criteria validation status pending
3 Maximum performance at begining of life based on FIO on Linux, QD=32, 1 worker. System application performance may vary based on host and prior system workload.
4 Maximum performance at begining of life based on FIO on Linux, QD=128, 8 workers. System application performance may vary based on host and prior system workload.

NYTRO™

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[1]	XP15360SEC0046	XP7680SEC0046	XP3840SEC0046	XP1920SEC0046
FIPS 140-3/Common Criteria Model[1,2]	XP15360SEC0056	XP7680SEC0056	XP3840SEC0056	XP1920SEC0056
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
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
Performance				
Sequential Read (MB/s) Sustained, 128KB[3]	14,800	14,900	14,900	14,900
Sequential Write (MB/s) Sustained, 128KB[3]	8,450	8,600	8,500	4,300
Random Read (IOPS) Sustained, 4KB[4]	2,600,000	3,200,000	3,300,000	2,400,000
Random Write (IOPS) Sustained, 4KB[4]	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
Endurance/Reliability				
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
Power Management				
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
Environmental				
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
Physical				
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

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