

Nearline Products



Enterprise Capacity 3.5 HDD

Highest-capacity enterprise drive for maximum-density server and storage solutions

- Ideal for massive scale-out storage environments
- 5-yr limited warranty and 2M hours MTBF

Capacity ¹	Model Number	Format	Interface	Form Factor	Maximum Sustained Data Rate	Power (Idle)	Workload Rate Limit	Reliability (MTBF)	SED	FIPS	PowerBalance
6TB	ST6000NM0004	4Kn	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M			
6TB	ST6000NM0024	512e	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M			
6TB	ST6000NM0064 ²	4Kn	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M	✓		
6TB	ST6000NM0044 ²	512e	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M	✓		
6TB	ST6000NM0094 ^{2,3}	4Kn	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M	✓	✓	
6TB	ST6000NM0084 ^{2,3}	512e	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M	✓	✓	
6TB	ST6000NM0124	512e	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M			✓
6TB	ST6000NM0014	4Kn	12Gb/s SAS	3.5"	226MB/s	8.43W	550TB/yr	2M			
6TB	ST6000NM0034	512e	12Gb/s SAS	3.5"	226MB/s	8.43W	550TB/yr	2M			
6TB	ST6000NM0074 ²	4Kn	12Gb/s SAS	3.5"	226MB/s	8.43W	550TB/yr	2M	✓		
6TB	ST6000NM0054 ²	512e	12Gb/s SAS	3.5"	226MB/s	8.43W	550TB/yr	2M	✓		
6TB	ST6000NM0114 ^{2,3}	4Kn	12Gb/s SAS	3.5"	226MB/s	8.43W	550TB/yr	2M	✓	✓	
6TB	ST6000NM0104 ^{2,3}	512e	12Gb/s SAS	3.5"	226MB/s	8.43W	550TB/yr	2M	✓	✓	
5TB	ST5000NM0084	512e	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M			
5TB	ST5000NM0124	512e	SATA 6Gb/s	3.5"	226MB/s	8W	550TB/yr	2M			✓
4TB	ST4000NM0004	512e	SATA 6Gb/s	3.5"	226MB/s	5.23W	550TB/yr	2M			
4TB	ST4000NM0024	512e	SATA 6Gb/s	3.5"	226MB/s	5.23W	550TB/yr	2M			
4TB	ST4000NM0064 ²	4Kn	SATA 6Gb/s	3.5"	226MB/s	5.23W	550TB/yr	2M	✓		
4TB	ST4000NM0044 ²	512e	SATA 6Gb/s	3.5"	226MB/s	5.23W	550TB/yr	2M	✓		
4TB	ST4000NM0124	512e	SATA 6Gb/s	3.5"	226MB/s	5.23W	550TB/yr	2M			✓
4TB	ST4000NM0014	4Kn	12Gb/s SAS	3.5"	226MB/s	6.64W	550TB/yr	2M			
4TB	ST4000NM0034	512e	12Gb/s SAS	3.5"	226MB/s	6.64W	550TB/yr	2M			
4TB	ST4000NM0074 ²	4Kn	12Gb/s SAS	3.5"	226MB/s	6.64W	550TB/yr	2M	✓		
4TB	ST4000NM0054 ²	512e	12Gb/s SAS	3.5"	226MB/s	6.64W	550TB/yr	2M	✓		
4TB	ST4000NM0134	512e	12Gb/s SAS	3.5"	226MB/s	6.64W	550TB/yr	2M			
2TB	ST2000NM0004	512e	SATA 6Gb/s	3.5"	226MB/s	3.71W	550TB/yr	2M			
2TB	ST2000NM0024	512e	SATA 6Gb/s	3.5"	226MB/s	3.71W	550TB/yr	2M			
2TB	ST2000NM0064 ²	4Kn	SATA 6Gb/s	3.5"	226MB/s	3.71W	550TB/yr	2M	✓		
2TB	ST2000NM0044 ²	512e	SATA 6Gb/s	3.5"	226MB/s	3.71W	550TB/yr	2M	✓		
2TB	ST2000NM0014	4Kn	12Gb/s SAS	3.5"	226MB/s	4.67W	550TB/yr	2M			
2TB	ST2000NM0034	512e	12Gb/s SAS	3.5"	226MB/s	4.67W	550TB/yr	2M			
2TB	ST2000NM0074 ²	4Kn	12Gb/s SAS	3.5"	226MB/s	4.67W	550TB/yr	2M	✓		
2TB	ST2000NM0054 ²	512e	12Gb/s SAS	3.5"	226MB/s	4.67W	550TB/yr	2M	✓		

Enterprise Capacity 2.5 HDD

Maximizes data center footprint

- Ideal for dense storage-hungry business needs
- 5-yr limited warranty

Capacity ¹	Model Number	Format	Interface	Form Factor	Maximum Sustained Data Rate	Power (Idle)	Workload Rate Limit	Reliability (MTBF)	SED	FIPS
2TB	ST2000NX0323 ²	4Kn	12Gb/s SAS	2.5"	136MB/s	3.53W	550TB/yr	1.4M	✓	
2TB	ST2000NX0263	4Kn	12Gb/s SAS	2.5"	136MB/s	3.53W	550TB/yr	1.4M		
2TB	ST2000NX0333	512e	12Gb/s SAS	2.5"	136MB/s	3.53W	550TB/yr	1.4M		

Enterprise Product List

Enterprise Capacity 2.5" HDD cont.

Capacity ¹	Model Number	Format	Interface	Form Factor	Maximum Sustained Data Rate	Power (Idle)	Workload Rate Limit	Reliability (MTBF)	SED	FIPS
2TB	ST2000NX0343 ²	512e	12Gb/s SAS	2.5"	136MB/s	3.53W	550TB/yr	1.4M	✓	
2TB	ST2000NX0353 ^{2,3}	512e	12Gb/s SAS	2.5"	136MB/s	3.53W	550TB/yr	1.4M	✓	✓
2TB	ST2000NX0273	512e	12Gb/s SAS	2.5"	136MB/s	3.53W	550TB/yr	1.4M		
2TB	ST2000NX0243	4Kn	SATA 6Gb/s	2.5"	136MB/s	3.87W	550TB/yr	1.4M		
2TB	ST2000NX0283 ²	4Kn	SATA 6Gb/s	2.5"	136MB/s	3.87W	550TB/yr	1.4M	✓	
2TB	ST2000NX0253	512e	SATA 6Gb/s	2.5"	136MB/s	3.87W	550TB/yr	1.4M		
2TB	ST2000NX0303 ²	512e	SATA 6Gb/s	2.5"	136MB/s	3.87W	550TB/yr	1.4M	✓	
1TB	ST1000NX0323	4Kn	12Gb/s SAS	2.5"	136MB/s	3.29W	550TB/yr	1.4M		
1TB	ST1000NX0363 ²	4Kn	12Gb/s SAS	2.5"	136MB/s	3.29W	550TB/yr	1.4M	✓	
1TB	ST1000NX0333	512e	12Gb/s SAS	2.5"	136MB/s	3.29W	550TB/yr	1.4M		
1TB	ST1000NX0373 ²	512e	12Gb/s SAS	2.5"	136MB/s	3.29W	550TB/yr	1.4M	✓	
1TB	ST1000NX0303	4Kn	SATA 6Gb/s	2.5"	136MB/s	3.51W	550TB/yr	1.4M		
1TB	ST1000NX0343 ²	4Kn	SATA 6Gb/s	2.5"	136MB/s	3.51W	550TB/yr	1.4M	✓	
1TB	ST1000NX0313	512e	SATA 6Gb/s	2.5"	136MB/s	3.51W	550TB/yr	1.4M		
1TB	ST1000NX0353 ²	512e	SATA 6Gb/s	2.5"	136MB/s	3.51W	550TB/yr	1.4M	✓	

Archive HDD

Lowest cost-per-TB online data active archive 3.5-inch hard drive for cloud storage

- Ideal for online archiving, big data cold storage
- 3-yr limited warranty

Capacity ¹	Model Number	Format	Interface	Form Factor	Maximum Sustained Data Rate	Power (Idle)	Workload Rate Limit	SED
8TB	ST8000AS0002	4Kn	SATA 6Gb/s	3.5"	190MB/s	5W	180TB/yr	
8TB	ST8000AS0012	4Kn	SATA 6Gb/s	3.5"	190MB/s	5W	180TB/yr	✓
6TB	ST6000AS0002	4Kn	SATA 6Gb/s	3.5"	190MB/s	5W	180TB/yr	
6TB	ST6000AS0012	4Kn	SATA 6Gb/s	3.5"	190MB/s	5W	180TB/yr	✓
5TB	ST5000AS0011	4Kn	SATA 6Gb/s	3.5"	180MB/s	3.5W	180TB/yr	
5TB	ST5000AS0001	4Kn	SATA 6Gb/s	3.5"	180MB/s	3.5W	180TB/yr	✓

Terascale® HDD

Affordable storage for 24x7 multi-drive replicated environments

- Ideal for web-scale computing
- 3-yr limited warranty

Capacity ¹	Model Number	Format	Interface	Form Factor	Maximum Sustained Data Rate	Power (Idle)	Workload Rate Limit	Instant Secure Erase
4TB	ST4000NC000	512e	SATA 6Gb/s	3.5"	170MB/s	4.59W	180TB/yr	✓
4TB	ST4000NC001	512e	SATA 6Gb/s	3.5"	170MB/s	4.59W	180TB/yr	

Mission-Critical Products



1200 SSD

Best-in-class performance and a rich enterprise feature set for demanding data center applications

- Ideal for high-performance computing, online transaction processing and heavy data analytics
- 5-yr limited warranty

Capacity ¹	Model Number	NAND Type	Interface	Maximum Sustained Data Rate	Total Terabytes Written (TBW) Over Warranty Period	SED	FIPS
800GB	ST800FM0053 ²	MLC	SAS 12Gb/s	750MB/s	14,600	✓	
800GB	ST800FM0063 ^{2,3}	MLC	SAS 12Gb/s	750MB/s	14,600	✓	✓
800GB	ST800FM0043	MLC	SAS 12Gb/s	750MB/s	14,600		
400GB	ST400FM0073 ²	MLC	SAS 12Gb/s	750MB/s	7300	✓	

Enterprise Product List

1200 SSD cont.

Capacity ¹	Model Number	NAND Type	Interface	Maximum Sustained Data Rate	Total Terabytes Written (TBW) Over Warranty Period	SED	FIPS
400GB	ST400FM0053	MLC	SAS 12Gb/s	750MB/s	7300		
200GB	ST200FM0073 ²	MLC	SAS 12Gb/s	750MB/s	3650	✓	
200GB	ST200FM0053	MLC	SAS 12Gb/s	750MB/s	3650		

Enterprise Performance 15K HDD

Enables Tier 1 applications to process transactions more quickly

- Ideal for high-performance Tier 1 enterprise servers
- 5-yr limited warranty

Capacity ¹	Model Number	Format	Interface	Max. Sustained Data Rate	SED	FIPS	TurboBoost™
600GB	ST600MP0005	512n	12Gb/s SAS	233MB/s			
600GB	ST600MP0015 ²	512n	12Gb/s SAS	233MB/s	✓		
600GB	ST600MP0025 ^{2,3}	512n	12Gb/s SAS	233MB/s	✓	✓	
600GB	ST600MX0052	512e	12Gb/s SAS	250MB/s			✓
600GB	ST600MX0062 ²	512e	12Gb/s SAS	250MB/s	✓		✓
600GB	ST600MX0072 ^{2,3}	512e	12Gb/s SAS	250MB/s	✓	✓	✓
600GB	ST600MX0082 ²	4Kn	12Gb/s SAS	250MB/s			✓
600GB	ST600MX0092 ²	4Kn	12Gb/s SAS	250MB/s	✓		✓
600GB	ST600MX0102 ^{2,3}	4Kn	12Gb/s SAS	250MB/s	✓	✓	✓
300GB	ST300MP0005	512n	12Gb/s SAS	233MB/s			
300GB	ST300MP0015 ²	512n	12Gb/s SAS	233MB/s	✓		
300GB	ST300MX0012	512e	12Gb/s SAS	250MB/s			✓
300GB	ST300MX0022 ²	512e	12Gb/s SAS	250MB/s	✓		✓
300GB	ST300MX0032	4Kn	12Gb/s SAS	250MB/s			✓
300GB	ST300MX0042 ²	4Kn	12Gb/s SAS	250MB/s	✓		✓

Enterprise Performance 10K HDD

Optimal balance of capacity, performance and power in a 10K-RPM, 2.5-inch enterprise drive

- Ideal for high-capacity/high-performance, mission-critical servers and external storage arrays
- 5-yr limited warranty

Capacity ¹	Model Number	Format	Interface	Maximum Sustained Data Rate	SED	FIPS	TurboBoost™
1.8TB	ST1800MM0128	512e	12Gb/s SAS	241MB/s			✓
1.8TB	ST1800MM0158 ^{2,3}	512e	12Gb/s SAS	241MB/s	✓	✓	✓
1.8TB	ST1800MM0088	4Kn	12Gb/s SAS	241MB/s			✓
1.8TB	ST1800MM0118 ^{2,3}	4Kn	12Gb/s SAS	241MB/s	✓	✓	✓
1.2TB	ST1200MM0158	512e	12Gb/s SAS	241MB/s			✓
1.2TB	ST1200MM0118	4Kn	12Gb/s SAS	241MB/s			✓
900GB	ST900MM0128	512e	12Gb/s SAS	241MB/s			✓
900GB	ST900MM0088	4Kn	12Gb/s SAS	241MB/s			✓
600GB	ST600MM0158	512e	12Gb/s SAS	241MB/s			✓
600GB	ST600MM0118	4Kn	12Gb/s SAS	241MB/s			✓



Accelerator Cards

Nytrio XP6300 Flash Accelerator Card

Density-optimized with maximum performance in a low profile. Performance scales gracefully with high thread count / queue depth.

- Ideal for virtualized and cloud environments.
- The lesser of 5 years or the end of the flash or NAND life

Product Name	Usable Capacity	Model Number	Form Factor	Host Bus Type	Read Bandwidth	Write Bandwidth	Read IOPs (8K)	Write IOPs (8K)
XP6302	1.3TB	ST1300KN0012	HHHL (MD2)	x8 lane PCI Express® 3.0	3.9GB/s	2.5GB/s	300,000	120,000
XP6302	1.75TB	ST1750KN0012	HHHL (MD2)	x8 lane PCI Express® 3.0	3.9GB/s	2.5GB/s	300,000	120,000

Nytrio XP6200 Flash Accelerator Card

Value-optimized and purpose-built application acceleration includes a thermally optimized design for reduced utility costs.

- Ideal for Open Compute and hyperscale servers
- The lesser of 3 years or the end of the flash or NAND life

Product Name	Usable Capacity	Model Number	Form Factor	Host Bus Type	Read Bandwidth	Write Bandwidth	Read IOPs (8K)	Write IOPs (8K)
XP6209	1.79TB	ST1796KN000	HHHL (MD2)	x8 lane PCI Express® 2.0	2GB/s	1.27GB/s	155,000	111,000
XP6210	1.86TB	ST1860KN000	FHHL (MD2)	x8 lane PCI Express® 2.0	2GB/s	1.27GB/s	185,000	120,000

Nytrio WarpDrive Flash Card

High performance, low latency and a low CPU burden accelerates hyperscale computing applications with onboard PCI-based flash.

- Ideal for data warehousing, data mining, data analytics, online transaction processing, high performance computing and big data.

Product Name	Capacity	Model Number	Form Factor	Host Bus Type	Read Bandwidth	Write Bandwidth	Read IOPs (8K)	Write IOPs (8K)
BFH8-3200	3.2TB	ST3200KN0002	FHHL (MD2)	x8 lane PCI Express® 3.0	4GB/s	2.5GB/s	280,000	200,000
BFH8-1600	1.6TB	ST1600KN0022	FHHL (MD2)	x8 lane PCI Express® 3.0	4GB/s	2.5GB/s	280,000	200,000
BFH6-1200	1.2TB	ST1200KN0012	FHHL (MD2)	x8 lane PCI Express® 3.0	3GB/s	2GB/s	230,000	140,000
BLP4-1600	1.6TB	ST1600KN0002	HHHL (MD2)	x8 lane PCI Express® 2.0	2GB/s	1GB/s	185,000	120,000
BLP4-800	800GB	ST800KN0002	HHHL (MD2)	x8 lane PCI Express® 2.0	2GB/s	1GB/s	185,000	120,000

New Seagate Model Number Key, Enterprise

ST 500 NM 123 1

BRAND	CAPACITY	SEGMENT	ATTRIBUTES	GENERATION
2 letters ST = Seagate MX = Maxtor	2 to 4 digits 500 = 500GB 1000 = 1000GB Capacities >9999GB: 10 = 10TB 15 = 15TB	2 letters MM = Mission-Critical, 2.5-Inch, 10K NM, NC = Nearline, 3.5-Inch FM = SSD Mainstream	3 digits, non-intelligent Varies as needed, for example: Interface RPM Cache SED	1 digit, intelligent 1 = 1st Generation 2 = 2nd Generation 3 = 3rd Generation

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to hard drive capacity.

2 Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.

3 See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401val2010.htm#1299>

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