

# Enterprise Product List

March 2015



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

### Enterprise Capacity 2.5 HDD

Maximizes data center footprint

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

| Capacity <sup>1</sup> | Model Number              | Format | Interface  | Form Factor | Maximum Sustained Data Rate | Power (Idle) | Workload Rate Limit | SED | FIPS |
|-----------------------|---------------------------|--------|------------|-------------|-----------------------------|--------------|---------------------|-----|------|
| 2TB                   | ST2000NX0323 <sup>2</sup> | 4Kn    | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.53W        | 550TB/yr            | ✓   |      |

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Enterprise Capacity 2.5" HDD cont.

| Capacity <sup>1</sup> | Model Number                | Format | Interface  | Form Factor | Maximum Sustained Data Rate | Power (Idle) | Workload Rate Limit | SED | FIPS |
|-----------------------|-----------------------------|--------|------------|-------------|-----------------------------|--------------|---------------------|-----|------|
| 2TB                   | ST2000NX0263                | 4Kn    | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.53W        | 550TB/yr            |     |      |
| 2TB                   | ST2000NX0333                | 512e   | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.53W        | 550TB/yr            |     |      |
| 2TB                   | ST2000NX0343 <sup>2</sup>   | 512e   | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.53W        | 550TB/yr            | ✓   |      |
| 2TB                   | ST2000NX0353 <sup>2,3</sup> | 512e   | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.53W        | 550TB/yr            | ✓   | ✓    |
| 2TB                   | ST2000NX0273                | 512e   | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.53W        | 550TB/yr            |     |      |
| 2TB                   | ST2000NX0243                | 4Kn    | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.87W        | 550TB/yr            |     |      |
| 2TB                   | ST2000NX0283 <sup>2</sup>   | 4Kn    | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.87W        | 550TB/yr            | ✓   |      |
| 2TB                   | ST2000NX0253                | 512e   | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.87W        | 550TB/yr            |     |      |
| 2TB                   | ST2000NX0303 <sup>2</sup>   | 512e   | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.87W        | 550TB/yr            | ✓   |      |
| 1TB                   | ST1000NX0323                | 4Kn    | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.29W        | 550TB/yr            |     |      |
| 1TB                   | ST1000NX0363 <sup>2</sup>   | 4Kn    | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.29W        | 550TB/yr            | ✓   |      |
| 1TB                   | ST1000NX0333                | 512e   | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.29W        | 550TB/yr            |     |      |
| 1TB                   | ST1000NX0373 <sup>2</sup>   | 512e   | 12Gb/s SAS | 2.5"        | 136MB/s                     | 3.29W        | 550TB/yr            | ✓   |      |
| 1TB                   | ST1000NX0303                | 4Kn    | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.51W        | 550TB/yr            |     |      |
| 1TB                   | ST1000NX0343 <sup>2</sup>   | 4Kn    | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.51W        | 550TB/yr            | ✓   |      |
| 1TB                   | ST1000NX0313                | 512e   | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.51W        | 550TB/yr            |     |      |
| 1TB                   | ST1000NX0353 <sup>2</sup>   | 512e   | SATA 6Gb/s | 2.5"        | 136MB/s                     | 3.51W        | 550TB/yr            | ✓   |      |

## 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 <sup>1</sup> | 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 24×7 multi-drive replicated environments

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

| Capacity <sup>1</sup> | 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            |                      |

# Enterprise Product List



## Mission-Critical Products

### 1200 SSD

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

- Ideal for IOPS-hungry enterprise applications, such as high-performance computing, online transaction processing and heavy data analytics
- 5-yr limited warranty

| Capacity <sup>1</sup> | Model Number               | NAND Type | Interface  | Maximum Sustained Data Rate | Total Terabytes Written (TBW) Over Warranty Period | SED | FIPS |
|-----------------------|----------------------------|-----------|------------|-----------------------------|--|-----|------|
| 800GB                 | ST800FM0053 <sup>2</sup>   | MLC       | SAS 12Gb/s | 750MB/s                     | 14,600   | ✓   |      |
| 800GB                 | ST800FM0063 <sup>2,3</sup> | MLC       | SAS 12Gb/s | 750MB/s                     | 14,600   | ✓   | ✓    |
| 800GB                 | ST800FM0043                | MLC       | SAS 12Gb/s | 750MB/s                     | 14,600   |     |      |
| 400GB                 | ST400FM0073 <sup>2</sup>   | MLC       | SAS 12Gb/s | 750MB/s                     | 7300   | ✓   |      |
| 400GB                 | ST400FM0053                | MLC       | SAS 12Gb/s | 750MB/s                     | 7300   |     |      |
| 200GB                 | ST200FM0073 <sup>2</sup>   | 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 <sup>1</sup> | Model Number               | Format | Interface  | Max. Sustained Data Rate | SED | FIPS | TurboBoost™ |
|-----------------------|----------------------------|--------|------------|--------------------------|-----|------|-------------|
| 600GB                 | ST600MP0005                | 512n   | 12Gb/s SAS | 244MB/s                  |     |      |             |
| 600GB                 | ST600MP0015 <sup>2</sup>   | 512n   | 12Gb/s SAS | 244MB/s                  | ✓   |      |             |
| 600GB                 | ST600MP0025 <sup>2,3</sup> | 512n   | 12Gb/s SAS | 244MB/s                  | ✓   | ✓    |             |
| 600GB                 | ST600MX0052                | 512e   | 12Gb/s SAS | 262MB/s                  |     |      | ✓           |
| 600GB                 | ST600MX0062 <sup>2</sup>   | 512e   | 12Gb/s SAS | 262MB/s                  | ✓   |      | ✓           |
| 600GB                 | ST600MX0072 <sup>2,3</sup> | 512e   | 12Gb/s SAS | 262MB/s                  | ✓   | ✓    | ✓           |
| 600GB                 | ST600MX0092 <sup>2</sup>   | 4Kn    | 12Gb/s SAS | 262MB/s                  | ✓   |      | ✓           |
| 600GB                 | ST600MX0102 <sup>2,3</sup> | 4Kn    | 12Gb/s SAS | 262MB/s                  | ✓   | ✓    | ✓           |
| 300GB                 | ST300MP0005                | 512n   | 12Gb/s SAS | 244MB/s                  |     |      |             |
| 300GB                 | ST300MP0015 <sup>2</sup>   | 512n   | 12Gb/s SAS | 244MB/s                  | ✓   |      |             |
| 300GB                 | ST300MX0012                | 512e   | 12Gb/s SAS | 262MB/s                  |     |      | ✓           |
| 300GB                 | ST300MX0022 <sup>2</sup>   | 512e   | 12Gb/s SAS | 262MB/s                  | ✓   |      | ✓           |
| 300GB                 | ST300MX0032                | 4Kn    | 12Gb/s SAS | 262MB/s                  |     |      | ✓           |
| 300GB                 | ST300MX0042 <sup>2</sup>   | 4Kn    | 12Gb/s SAS | 262MB/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 <sup>1</sup> | Model Number                | Format | Interface  | Maximum Sustained Data Rate | SED | FIPS | TurboBoost™ |
|-----------------------|-----------------------------|--------|------------|-----------------------------|-----|------|-------------|
| 1.8TB                 | ST1800MM0128                | 512e   | 12Gb/s SAS | 241MB/s                     |     |      | ✓           |
| 1.8TB                 | ST1800MM0158 <sup>2,3</sup> | 512e   | 12Gb/s SAS | 241MB/s                     | ✓   | ✓    |             |
| 1.8TB                 | ST1800MM0088                | 4Kn    | 12Gb/s SAS | 241MB/s                     |     |      |             |

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Enterprise Performance 10K HDD cont.

| Capacity <sup>1</sup> | Model Number                | Format | Interface  | Maximum Sustained Data Rate | SED | FIPS | TurboBoost™ |
|-----------------------|-----------------------------|--------|------------|-----------------------------|-----|------|-------------|
| 1.8TB                 | ST1800MM0118 <sup>2,3</sup> | 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         |

# Enterprise Product List

## New Seagate Model Number Key, Enterprise

**ST 500 NM 123 1**

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

[www.seagate.com](http://www.seagate.com)

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