

## ThinkSystem 5300 Entry 6Gb SATA SSDs

### Product Guide

The 5300 Entry SATA solid-state drives (SSDs) are new SSDs for ThinkSystem servers. The drives use Micron 96-layer 3D NAND flash memory technology with a SATA 6Gbps interface and provide an affordable solution for read-intensive applications such as boot, web servers, lower data rate operational databases and analytics.



Figure 1. Lenovo ThinkSystem 5300 Entry SATA SSD

### Did you know?

The 5300 Series of SATA SSDs are the follow-on to the 5200 line of SSDs. The two series share the same controller, firmware, interface and features. The key difference is that the 5300 Series uses a new 96-layer 3D NAND storage medium compared to the 64-layer technology in the 5200. The 5300 drives have higher endurance and lower latency compared to the 5200 SSDs.

Lenovo also offers high-performance self-encrypting drives (SEDs) in the 5300 Series. These SSDs adhere to the Trusted Computing Group Enterprise Security Subsystem Class cryptographic standard (TCG Enterprise SSC). Read about them in the [ThinkSystem 5300 Entry 6Gb SATA SED SSD product guide](#).

## Part number information

The following table lists the ThinkSystem part numbers.

**M.2 drives:** The range of Micron 5300 SSDs in M.2 form factor are described in the ThinkSystem M.2 Drives and M.2 Adapters product guide, available from <https://lenovopress.com/lp0769>.

**SED drives:** For self-encrypting drives, see the ThinkSystem 5300 Entry 6Gb SATA SED SSDs product guide, <https://lenovopress.com/lp1254>

Table 1. ThinkSystem ordering information

| Part number                              | Feature | Description   |
|--|---------|---|
| 2.5-inch hot-swap drives                 |         |   |
| 4XB7A17075                               | B8HV    | ThinkSystem 2.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD             |
| 4XB7A17076                               | B8JM    | ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD             |
| 4XB7A17077                               | B8HP    | ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD             |
| 4XB7A17078                               | B8J5    | ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD            |
| 4XB7A17079                               | B8JP    | ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD            |
| 4XB7A17080                               | B8J2    | ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD            |
| 3.5-inch hot-swap drives                 |         |   |
| 4XB7A17081                               | B8JB    | ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD             |
| 4XB7A17082                               | B8J9    | ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD             |
| 4XB7A17083                               | B8JC    | ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD             |
| 4XB7A17084                               | B8HZ    | ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD            |
| 4XB7A17085                               | B8HQ    | ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD            |
| 4XB7A17086                               | B8J3    | ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD            |
| 7mm hot-swap drives                      |         |   |
| 4XB7A38181                               | B8JQ    | ThinkSystem 7mm 5300 240GB Entry SATA 6Gb SSD                       |
| 4XB7A38182                               | B8JT    | ThinkSystem 7mm 5300 480GB Entry SATA 6Gb SSD                       |
| 4XB7A38183                               | B8JS    | ThinkSystem 7mm 5300 960GB Entry SATA 6Gb SSD                       |
| 2.5-inch non-hot-swap drives for ST50 V2 |         |   |
| 4XB7A77457                               | BME8    | ThinkSystem ST50 V2 2.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD |
| 4XB7A77458                               | BME7    | ThinkSystem ST50 V2 2.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD |
| 3.5-inch non-hot-swap drives for ST50 V2 |         |   |
| 4XB7A77452                               | BME4    | ThinkSystem ST50 V2 3.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD |
| 4XB7A77453                               | BME3    | ThinkSystem ST50 V2 3.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD |
| 3.5-inch non-hot-swap drives for ST50    |         |   |
| 4XB7A17205                               | BE3F    | ThinkSystem ST50 3.5" 5300 480GB Entry SATA 6Gb Non Hot Swap SSD    |
| 4XB7A17206                               | BE3E    | ThinkSystem ST50 3.5" 5300 960GB Entry SATA 6Gb Non Hot Swap SSD    |
| Trayless drives for water-cooled systems |         |   |
| 4XB7A17182                               | BA46    | ThinkSystem 5300 2.5" 7mm 240GB Entry SATA 6Gb Trayless SSD         |
| 4XB7A17183                               | BA47    | ThinkSystem 5300 2.5" 7mm 480GB Entry SATA 6Gb Trayless SSD         |
| 4XB7A17184                               | BNHX    | ThinkSystem 2.5" 7mm 5300 960GB Entry SATA 6Gb Trayless SSD         |

## Features

The 5300 Entry SATA SSDs have the following features:

- Industry standard 2.5-inch or 3.5-inch form factors (for M.2 drives, see <https://lenovopress.com/lp0769>)
- New generation 96-layer 3D TLC NAND flash memory
- Suitable for read-intensive workloads with an endurance of between 0.6 and 1.5 drive writes per day (DWPD) for 5 years
- 6 Gbps SATA host interface
- High reliability and enhanced ruggedness
- MTTF of 3 million device hours - 50% more than most drives
- Absence of moving parts to reduce potential failure points in the server
- S.M.A.R.T. support
- Advanced Encrypting Standard (AES) 256-bit encryption

SSDs have a huge but finite number of program/erase (P/E) cycles, which affect how long they can perform write operations and thus their life expectancy. Entry SSDs typically have a better cost per read IOPS ratio but lower endurance and performance compared to Mainstream and Performance SSDs. SSD write endurance is typically measured by the number of program/erase cycles that the drive can incur over its lifetime, which is listed as total bytes written (TBW) in the device specification.

The TBW value that is assigned to a solid-state device is the total bytes of written data that a drive can be guaranteed to complete. Reaching this limit does not cause the drive to immediately fail; the TBW simply denotes the maximum number of writes that can be guaranteed. A solid-state device does *not* fail upon reaching the specified TBW. However, at some point after surpassing the TBW value (and based on manufacturing variance margins), the drive reaches the end-of-life point, at which time the drive goes into read-only mode. Because of such behavior, careful planning must be done to use SSDs in the application environments to ensure that the TBW of the drive is not exceeded before the required life expectancy.

For example, the 960 GB 5300 Entry drive has an endurance of 2,628 TB of total bytes written (TBW). This means that for full operation over five years, write workload must be limited to no more than 1,440 GB of writes per day, which is equivalent to 1.5 full drive writes per day (DWPD). For the device to last three years, the drive write workload must be limited to no more than 2,400 GB of writes per day, which is equivalent to 2.5 full drive writes per day. .

## Technical specifications

The following table presents technical specifications for the 5300 Entry SATA SSDs.

**Tip:** Drives listed in this product guide are the Lenovo versions of the Micron 5300 PRO family of SSDs.

Table 2. Technical specifications

| Feature                               | 240 GB drive                      | 480 GB drive                      | 960 GB drive                      | 1.92 TB drive                     | 3.84 TB drive                     | 7.68 TB drive                     |
|---------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Interface                             | 6 Gbps SATA                       | 6 Gbps SATA                       | 6 Gbps SATA                       | 6 Gbps SATA                       | 6 Gbps SATA                       | 6 Gbps SATA                       |
| Capacity                              | 240 GB                            | 480 GB                            | 960 GB                            | 1.92 TB                           | 3.84 TB                           | 7.68 TB                           |
| SED encryption                        | None                              | None                              | None                              | None                              | None                              | None                              |
| Endurance (drive writes per day)      | 1.5 DWPD                          | 1.5 DWPD                          | 1.5 DWPD                          | 1.5 DWPD                          | 1.2 DWPD                          | 0.6 DWPD                          |
| Endurance (total bytes written)       | 657 TB                            | 1324 TB                           | 2628 TB                           | 5256 TB                           | 8410 TB                           | 9110 TB                           |
| Data reliability                      | < 1 in 10 <sup>17</sup> bits read | < 1 in 10 <sup>17</sup> bits read | < 1 in 10 <sup>17</sup> bits read | < 1 in 10 <sup>17</sup> bits read | < 1 in 10 <sup>17</sup> bits read | < 1 in 10 <sup>17</sup> bits read |
| MTTF                                  | 3,000,000 hours                   | 3,000,000 hours                   | 3,000,000 hours                   | 3,000,000 hours                   | 3,000,000 hours                   | 3,000,000 hours                   |
| IOPS reads (4 KB blocks)              | 67,000                            | 85,000                            | 95,000                            | 95,000                            | 95,000                            | 95,000                            |
| IOPS writes (4 KB blocks)             | 40,000                            | 36,000                            | 35,000                            | 30,000                            | 22,000                            | 11,000                            |
| Sequential read rate (128 KB blocks)  | 540 MBps                          | 540 MBps                          | 540 MBps                          | 540 MBps                          | 540 MBps                          | 540 MBps                          |
| Sequential write rate (128 KB blocks) | 310 MBps                          | 410 MBps                          | 520 MBps                          | 520 MBps                          | 520 MBps                          | 520 MBps                          |
| Read latency (seq)                    | 175 µs                            | 175 µs                            | 175 µs                            | 175 µs                            | 175 µs                            | 175 µs                            |
| Write latency (seq)                   | 300 µs                            | 100 µs                            | 100 µs                            | 300 µs                            | 350 µs                            | 650 µs                            |
| Shock, non-operating                  | 1,500 G (Max) at 0.5 ms           | 1,500 G (Max) at 0.5 ms           | 1,500 G (Max) at 0.5 ms           | 1,500 G (Max) at 0.5 ms           | 1,500 G (Max) at 0.5 ms           | 1,500 G (Max) at 0.5 ms           |
| Vibration, non-operating              | 3.13 G <sub>RMS</sub> (5-800 Hz)  | 3.13 G <sub>RMS</sub> (5-800 Hz)  | 3.13 G <sub>RMS</sub> (5-800 Hz)  | 3.13 G <sub>RMS</sub> (5-800 Hz)  | 3.13 G <sub>RMS</sub> (5-800 Hz)  | 3.13 G <sub>RMS</sub> (5-800 Hz)  |
| Typical power (R/W)                   | 2.5 W / 3.0 W                     | 2.5 W / 3.1 W                     | 2.8 W / 3.4 W                     | 3.0 W / 3.8 W                     | 2.5 W / 3.8 W                     | 2.5 W / 3.9 W                     |

## Server support

The following tables list the ThinkSystem servers that are compatible.

Table 3. Server support (Part 1 of 3)

| Part Number                     | Description  | Edge                |              | 1S Intel V2           |                        | AMD V3                 |                        |                        | Intel V3               |                        |                        | Dense V3               |                        |                 | 2S Intel V2       |                 |                   |                        |                        |                        |                        |
|---------------------------------|--|---------------------|--------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|-------------------|-----------------|-------------------|------------------------|------------------------|------------------------|------------------------|
|                                 |  | SE350 (7Z46 / 7D1X) | SE450 (7D8T) | ST50 V2 (7D8K / 7D8J) | ST250 V2 (7D8G / 7D8F) | SR250 V2 (7D7R / 7D7Q) | SR645 V3 (7D9D / 7D9C) | SR665 V3 (7D9B / 7D9A) | SR675 V3 (7D9Q / 7D9R) | SR630 V3 (7D72 / 7D73) | SR650 V3 (7D75 / 7D76) | SR850 V3 (7D97 / 7D96) | SR860 V3 (7D94 / 7D93) | SD665 V3 (7D9P) | SD665-N V3 (7DAZ) | SD650 V3 (7D7M) | SD650-1 V3 (7D7L) | ST650 V2 (7Z75 / 7Z74) | SR630 V2 (7Z70 / 7Z71) | SR650 V2 (7Z72 / 7Z73) | SR670 V2 (7Z22 / 7Z23) |
| <b>2.5-inch hot-swap drives</b> |  |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A17075                      | ThinkSystem 2.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD  | N                   | N            | N                     | Y                      | Y                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | Y                      | Y                      | Y                      | Y                      |
| 4XB7A17076                      | ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD  | N                   | N            | N                     | Y                      | Y                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | Y                      | Y                      | Y                      | Y                      |
| 4XB7A17077                      | ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD  | N                   | N            | N                     | Y                      | Y                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | Y                      | Y                      | Y                      | Y                      |
| 4XB7A17078                      | ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | Y                      | Y                      | Y                      | Y                      |
| 4XB7A17079                      | ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | Y                      | Y                      | Y                      | Y                      |
| 4XB7A17080                      | ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | Y                      | Y                      | Y                      | Y                      |
| <b>3.5-inch hot-swap drives</b> |  |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A17081                      | ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD  | N                   | N            | N                     | Y                      | Y                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | Y                      |
| 4XB7A17082                      | ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD  | N                   | N            | N                     | Y                      | Y                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | Y                      |
| 4XB7A17083                      | ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD  | N                   | N            | N                     | Y                      | Y                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | Y                      |
| 4XB7A17084                      | ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | Y                      |

| Part Number                                     | Description   | Edge                |              | 1S Intel V2           |                        |                        | AMD V3                 |                        |                        | Intel V3               |                        |                        | Dense V3               |                 |                   | 2S Intel V2     |                   |                        |                        |                        |                        |
|---|---|---------------------|--------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|-------------------|-----------------|-------------------|------------------------|------------------------|------------------------|------------------------|
|   |   | SE350 (7Z46 / 7D1X) | SE450 (7D8T) | ST50 V2 (7D8K / 7D8J) | ST250 V2 (7D8G / 7D8F) | SR250 V2 (7D7R / 7D7Q) | SR645 V3 (7D9D / 7D9C) | SR665 V3 (7D9B / 7D9A) | SR675 V3 (7D9Q / 7D9R) | SR630 V3 (7D72 / 7D73) | SR650 V3 (7D75 / 7D76) | SR850 V3 (7D97 / 7D96) | SR860 V3 (7D94 / 7D93) | SD665 V3 (7D9P) | SD665-N V3 (7DAZ) | SD650 V3 (7D7M) | SD650-I V3 (7D7L) | ST650 V2 (7Z75 / 7Z74) | SR630 V2 (7Z70 / 7Z71) | SR650 V2 (7Z72 / 7Z73) | SR670 V2 (7Z22 / 7Z23) |
| 4XB7A17085                                      | ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD            | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | Y                      |
| 4XB7A17086                                      | ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD            | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | Y                      |
| <b>7mm hot-swap drives</b>                      |   |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A38181                                      | ThinkSystem 7mm 5300 240GB Entry SATA 6Gb SSD                       | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | N                      |
| 4XB7A38182                                      | ThinkSystem 7mm 5300 480GB Entry SATA 6Gb SSD                       | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | N                      |
| 4XB7A38183                                      | ThinkSystem 7mm 5300 960GB Entry SATA 6Gb SSD                       | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | Y                      | Y                      | N                      |
| <b>2.5-inch non-hot-swap drives for ST50 V2</b> |   |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A77457                                      | ThinkSystem ST50 V2 2.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD | N                   | N            | Y                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |
| 4XB7A77458                                      | ThinkSystem ST50 V2 2.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD | N                   | N            | Y                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |
| <b>3.5-inch non-hot-swap drives for ST50 V2</b> |   |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A77452                                      | ThinkSystem ST50 V2 3.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD | N                   | N            | Y                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |
| 4XB7A77453                                      | ThinkSystem ST50 V2 3.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD | N                   | N            | Y                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |
| <b>3.5-inch non-hot-swap drives for ST50</b>    |   |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A17205                                      | ThinkSystem ST50 3.5" 5300 480GB Entry SATA 6Gb Non Hot Swap SSD    | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |
| 4XB7A17206                                      | ThinkSystem ST50 3.5" 5300 960GB Entry SATA 6Gb Non Hot Swap SSD    | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |
| <b>Trayless drives for water-cooled systems</b> |   |                     |              |                       |                        |                        |                        |                        |                        |                        |                        |                        |                        |                 |                   |                 |                   |                        |                        |                        |                        |
| 4XB7A17182                                      | ThinkSystem 5300 2.5" 7mm 240GB Entry SATA 6Gb Trayless SSD         | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      |

| Part Number | Description   | Edge                |              | 1S Intel V2           |                        |                        | AMD V3                 |                        |                        | Intel V3               |                        |                        | Dense V3               |                 |                   | 2S Intel V2     |                   |                        |                        |                        |                        |   |
|-------------|---|---------------------|--------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------|-------------------|-----------------|-------------------|------------------------|------------------------|------------------------|------------------------|---|
|             |   | SE350 (7Z46 / 7D1X) | SE450 (7D8T) | ST50 V2 (7D8K / 7D8J) | ST250 V2 (7D8G / 7D8F) | SR250 V2 (7D7R / 7D7Q) | SR645 V3 (7D9D / 7D9C) | SR665 V3 (7D9B / 7D9A) | SR675 V3 (7D9Q / 7D9R) | SR630 V3 (7D72 / 7D73) | SR650 V3 (7D75 / 7D76) | SR850 V3 (7D97 / 7D96) | SR860 V3 (7D94 / 7D93) | SD665 V3 (7D9P) | SD665-N V3 (7DAZ) | SD650 V3 (7D7M) | SD650-I V3 (7D7L) | ST650 V2 (7Z75 / 7Z74) | SR630 V2 (7Z70 / 7Z71) | SR650 V2 (7Z72 / 7Z73) | SR670 V2 (7Z22 / 7Z23) |   |
| 4XB7A17183  | ThinkSystem 5300 2.5" 7mm 480GB Entry SATA 6Gb Trayless SSD | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      | N |
| 4XB7A17184  | ThinkSystem 2.5" 7mm 5300 960GB Entry SATA 6Gb Trayless SSD | N                   | N            | N                     | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N                      | N               | N                 | N               | N                 | N                      | N                      | N                      | N                      | N |

Table 4. Server support (Part 2 of 3)

| Part Number                     | Description  | AMD V1              |                     |                 |                     | Dense V2            |                 |                 | 4S V2             |                 | 8S                     | 4S V1                  |                     | 1S Intel V1         |                      |                     |                    |                     |              |
|---------------------------------|--|---------------------|---------------------|-----------------|---------------------|---------------------|-----------------|-----------------|-------------------|-----------------|------------------------|------------------------|---------------------|---------------------|----------------------|---------------------|--------------------|---------------------|--------------|
|                                 |  | SR635 (7Y98 / 7Y99) | SR655 (7Y00 / 7Z01) | SR655 Client OS | SR645 (7D2Y / 7D2X) | SR665 (7D2W / 7D2V) | SD630 V2 (7D1K) | SD650 V2 (7D1M) | SD650-N V2 (7D1N) | SN550 V2 (7Z69) | SR850 V2 (7D31 / 7D32) | SR860 V2 (7Z59 / 7Z60) | SR950 (7X11 / 7X12) | SR850 (7X18 / 7X19) | SR850P (7D2F / 2D2G) | SR860 (7X69 / 7X70) | ST50 (7Y48 / 7Y50) | ST250 (7Y45 / 7Y46) | SR150 (7Y54) |
| <b>2.5-inch hot-swap drives</b> |  |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |
| 4XB7A17075                      | ThinkSystem 2.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | Y               | Y                      | Y                      | Y                   | Y                   | Y                    | N                   | Y                  | N                   | Y            |
| 4XB7A17076                      | ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | Y               | Y                      | Y                      | Y                   | Y                   | Y                    | N                   | Y                  | N                   | Y            |
| 4XB7A17077                      | ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | Y               | Y                      | Y                      | Y                   | Y                   | Y                    | N                   | Y                  | N                   | Y            |
| 4XB7A17078                      | ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | Y               | Y                      | Y                      | Y                   | Y                   | Y                    | N                   | Y                  | N                   | Y            |
| 4XB7A17079                      | ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | Y               | Y                      | Y                      | Y                   | Y                   | Y                    | N                   | Y                  | N                   | Y            |
| 4XB7A17080                      | ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | Y               | Y                      | Y                      | Y                   | Y                   | Y                    | N                   | N                  | N                   | N            |
| <b>3.5-inch hot-swap drives</b> |  |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |
| 4XB7A17081                      | ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | Y                  | N                   | Y            |
| 4XB7A17082                      | ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | Y                  | N                   | Y            |

| Part Number                                     | Description   | AMD V1              |                     |                 |                     |                     | Dense V2        |                 |                   |                 | 4S V2                  | 8S                     | 4S V1               |                     | 1S Intel V1          |                     |                    |                     |              |
|---|---|---------------------|---------------------|-----------------|---------------------|---------------------|-----------------|-----------------|-------------------|-----------------|------------------------|------------------------|---------------------|---------------------|----------------------|---------------------|--------------------|---------------------|--------------|
|   |   | SR635 (7Y98 / 7Y99) | SR655 (7Y00 / 7Z01) | SR655 Client OS | SR645 (7D2Y / 7D2X) | SR665 (7D2W / 7D2V) | SD630 V2 (7D1K) | SD650 V2 (7D1M) | SD650-N V2 (7D1N) | SN550 V2 (7Z69) | SR850 V2 (7D31 / 7D32) | SR860 V2 (7Z59 / 7Z60) | SR950 (7X11 / 7X12) | SR850 (7X18 / 7X19) | SR850P (7D2F / 2D2G) | SR860 (7X69 / 7X70) | ST50 (7Y48 / 7Y50) | ST250 (7Y45 / 7Y46) | SR150 (7Y54) |
| 4XB7A17083                                      | ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD             | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | Y                  | N                   | Y            |
| 4XB7A17084                                      | ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD            | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | Y                  | N                   | Y            |
| 4XB7A17085                                      | ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD            | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | Y                  | N                   | Y            |
| 4XB7A17086                                      | ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD            | Y                   | Y                   | Y               | Y                   | Y                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| <b>7mm hot-swap drives</b>                      |   |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |
| 4XB7A38181                                      | ThinkSystem 7mm 5300 240GB Entry SATA 6Gb SSD                       | N                   | N                   | N               | Y                   | Y                   | Y               | N               | N                 | N               | Y                      | Y                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| 4XB7A38182                                      | ThinkSystem 7mm 5300 480GB Entry SATA 6Gb SSD                       | N                   | N                   | N               | Y                   | Y                   | Y               | N               | N                 | N               | Y                      | Y                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| 4XB7A38183                                      | ThinkSystem 7mm 5300 960GB Entry SATA 6Gb SSD                       | N                   | N                   | N               | Y                   | Y                   | Y               | N               | N                 | N               | Y                      | Y                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| <b>2.5-inch non-hot-swap drives for ST50 V2</b> |   |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |
| 4XB7A77457                                      | ThinkSystem ST50 V2 2.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N               | N                   | N                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| 4XB7A77458                                      | ThinkSystem ST50 V2 2.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N               | N                   | N                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| <b>3.5-inch non-hot-swap drives for ST50 V2</b> |   |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |
| 4XB7A77452                                      | ThinkSystem ST50 V2 3.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N               | N                   | N                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| 4XB7A77453                                      | ThinkSystem ST50 V2 3.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N               | N                   | N                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            |
| <b>3.5-inch non-hot-swap drives for ST50</b>    |   |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |
| 4XB7A17205                                      | ThinkSystem ST50 3.5" 5300 480GB Entry SATA 6Gb Non Hot Swap SSD    | N                   | N                   | N               | N                   | N                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | Y                   | N                  | N                   | N            |
| 4XB7A17206                                      | ThinkSystem ST50 3.5" 5300 960GB Entry SATA 6Gb Non Hot Swap SSD    | N                   | N                   | N               | N                   | N                   | N               | N               | N                 | N               | N                      | N                      | N                   | N                   | N                    | Y                   | N                  | N                   | N            |
| <b>Trayless drives for water-cooled systems</b> |   |                     |                     |                 |                     |                     |                 |                 |                   |                 |                        |                        |                     |                     |                      |                     |                    |                     |              |



| Part Number | Description   | AMD V1              |                     |                 |                     |                     | Dense V2        |                 |                   | 4S V2           | 8S                     | 4S V1                  |                     | 1S Intel V1         |                      |                     |                    |                     |              |                     |
|-------------|---|---------------------|---------------------|-----------------|---------------------|---------------------|-----------------|-----------------|-------------------|-----------------|------------------------|------------------------|---------------------|---------------------|----------------------|---------------------|--------------------|---------------------|--------------|---------------------|
|             |   | SR635 (7Y98 / 7Y99) | SR655 (7Y00 / 7Z01) | SR655 Client OS | SR645 (7D2Y / 7D2X) | SR665 (7D2W / 7D2V) | SD630 V2 (7D1K) | SD650 V2 (7D1M) | SD650-N V2 (7D1N) | SN550 V2 (7Z69) | SR850 V2 (7D31 / 7D32) | SR860 V2 (7Z59 / 7Z60) | SR950 (7X11 / 7X12) | SR850 (7X18 / 7X19) | SR850P (7D2F / 2D2G) | SR860 (7X69 / 7X70) | ST50 (7Y48 / 7Y50) | ST250 (7Y45 / 7Y46) | SR150 (7Y54) | SR250 (7Y52 / 7Y51) |
| 4XB7A17182  | ThinkSystem 5300 2.5" 7mm 240GB Entry SATA 6Gb Trayless SSD | N                   | N                   | N               | N                   | N                   | N               | Y               | Y                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            | N                   |
| 4XB7A17183  | ThinkSystem 5300 2.5" 7mm 480GB Entry SATA 6Gb Trayless SSD | N                   | N                   | N               | N                   | N                   | N               | Y               | Y                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            | N                   |
| 4XB7A17184  | ThinkSystem 2.5" 7mm 5300 960GB Entry SATA 6Gb Trayless SSD | N                   | N                   | N               | N                   | N                   | N               | Y               | Y                 | N               | N                      | N                      | N                   | N                   | N                    | N                   | N                  | N                   | N            | N                   |

Table 5. Server support (Part 3 of 3)

| Part Number                     | Description  | 2S Intel V1         |                     |                     |                     |                     |                     |                     | Dense V1            |              |              |              |              |   |
|---------------------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------|--------------|--------------|--------------|---|
|                                 |  | ST550 (7X09 / 7X10) | SR530 (7X07 / 7X08) | SR550 (7X03 / 7X04) | SR570 (7Y02 / 7Y03) | SR590 (7X98 / 7X99) | SR630 (7X01 / 7X02) | SR650 (7X05 / 7X06) | SR670 (7Y36 / 7Y37) | SD530 (7X21) | SD650 (7X58) | SN550 (7X16) | SN850 (7X15) |   |
| <b>2.5-inch hot-swap drives</b> |  |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |   |
| 4XB7A17075                      | ThinkSystem 2.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y            | Y            | N            | Y            | Y |
| 4XB7A17076                      | ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y            | Y            | N            | Y            | Y |
| 4XB7A17077                      | ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y            | Y            | N            | Y            | Y |
| 4XB7A17078                      | ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y            | Y            | N            | Y            | Y |
| 4XB7A17079                      | ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y            | Y            | N            | Y            | Y |
| 4XB7A17080                      | ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N            | Y            | N            | Y            | Y |
| <b>3.5-inch hot-swap drives</b> |  |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |   |
| 4XB7A17081                      | ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD  | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N            | N            | N            | N            | N |

| Part Number                                     | Description   | 2S Intel V1         |                     |                     |                     |                     |                     |                     |                     | Dense V1     |              |              |              |
|---|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------|--------------|--------------|--------------|
|   |   | ST550 (7X09 / 7X10) | SR530 (7X07 / 7X08) | SR550 (7X03 / 7X04) | SR570 (7Y02 / 7Y03) | SR590 (7X98 / 7X99) | SR630 (7X01 / 7X02) | SR650 (7X05 / 7X06) | SR670 (7Y36 / 7Y37) | SD530 (7X21) | SD650 (7X58) | SN550 (7X16) | SN850 (7X15) |
| 4XB7A17082                                      | ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD             | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N                   | N            | N            | N            | N            |
| 4XB7A17083                                      | ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD             | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N                   | N            | N            | N            | N            |
| 4XB7A17084                                      | ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD            | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N                   | N            | N            | N            | N            |
| 4XB7A17085                                      | ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD            | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N                   | N            | N            | N            | N            |
| 4XB7A17086                                      | ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD            | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | Y                   | N                   | N            | N            | N            | N            |
| <b>7mm hot-swap drives</b>                      |   |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |
| 4XB7A38181                                      | ThinkSystem 7mm 5300 240GB Entry SATA 6Gb SSD                       | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A38182                                      | ThinkSystem 7mm 5300 480GB Entry SATA 6Gb SSD                       | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A38183                                      | ThinkSystem 7mm 5300 960GB Entry SATA 6Gb SSD                       | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| <b>2.5-inch non-hot-swap drives for ST50 V2</b> |   |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |
| 4XB7A77457                                      | ThinkSystem ST50 V2 2.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A77458                                      | ThinkSystem ST50 V2 2.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| <b>3.5-inch non-hot-swap drives for ST50 V2</b> |   |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |
| 4XB7A77452                                      | ThinkSystem ST50 V2 3.5" 5300 480GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A77453                                      | ThinkSystem ST50 V2 3.5" 5300 960GB Read Intensive SATA 6Gb NHS SSD | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| <b>3.5-inch non-hot-swap drives for ST50</b>    |   |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |
| 4XB7A17205                                      | ThinkSystem ST50 3.5" 5300 480GB Entry SATA 6Gb Non Hot Swap SSD    | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A17206                                      | ThinkSystem ST50 3.5" 5300 960GB Entry SATA 6Gb Non Hot Swap SSD    | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| <b>Trayless drives for water-cooled systems</b> |   |                     |                     |                     |                     |                     |                     |                     |                     |              |              |              |              |
| 4XB7A17182                                      | ThinkSystem 5300 2.5" 7mm 240GB Entry SATA 6Gb Trayless SSD         | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A17183                                      | ThinkSystem 5300 2.5" 7mm 480GB Entry SATA 6Gb Trayless SSD         | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |
| 4XB7A17184                                      | ThinkSystem 2.5" 7mm 5300 960GB Entry SATA 6Gb Trayless SSD         | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N                   | N            | N            | N            | N            |

## Operating system support

SATA SSDs operate transparently to users, storage systems, applications, databases, and operating systems.

Operating system support is based on the controller used to connect to the drives. Consult the controller product guide for more information:

- RAID controllers: <https://lenovopress.com/servers/options/raid>
- SAS HBAs: <https://lenovopress.com/servers/options/hba>

## Warranty

The 5300 Entry SATA SSDs carry a one-year, customer-replaceable unit (CRU) limited warranty. When the SSDs are installed in a supported server, these drives assume the system's base warranty and any warranty upgrades.

Solid State Memory cells have an intrinsic, finite number of program/erase cycles that each cell can incur. As a result, each solid state device has a maximum amount of program/erase cycles to which it can be subjected. The warranty for Lenovo solid state drives (SSDs) is limited to drives that have not reached the maximum guaranteed number of program/erase cycles, as documented in the Official Published Specifications for the SSD product. A drive that reaches this limit may fail to operate according to its Specifications.

## Physical specifications

The drives have the following physical specifications (approximate, without the tray):

- Height: 7 mm (0.3 in.)
- Width: 70 mm (2.8 in.)
- Depth: 100 mm (4.0 in.)
- Weight: 70 g (2.5 oz)

Shipping dimensions and weight - 2.5-inch drives (approximate, including the tray):

- Height: 63 mm (2.5 in.)
- Width: 174 mm (6.9 in.)
- Depth: 133 mm (5.2 in.)
- Weight: 434 g (1.0 lb)

Shipping dimensions and weight - 3.5-inch drives (approximate, including the tray):

- Height: 95 mm (3.7 in.)
- Width: 257 mm (10.1 in.)
- Depth: 193 mm (7.6 in.)
- Weight: 484 g (1.1 lb)

## Operating environment

The SSDs are supported in the following environment:

- Operating temperature: 0 to 70°C (32 to 158°F)
- Non-operating temperature: -40 to 85°C (-40 to 185°F)
- Relative humidity: 5 to 95% (non-condensing)

## Agency approvals

The 5300 Entry SATA SSDs conform to the following regulations:

- Micron Green Standard
- Built with sulfur resistant resistors
- CE (Europe): EN 55032 Class B, RoHS
- FCC: CFR Title 47, Part 15 Class B
- UL: UL-60950-1, 2nd Edition
- BSMI (Taiwan): approval to CNS 13438
- RCM (Australia, New Zealand): AS/NZS CISPR32 Class B
- KCC RRL (Korea): approval to KN 32 Class B, KN 35 Class B
- W.E.E.E.: Compliance with EU WEEE directive 2002/96/EC.
- TUV (Germany): approval to IEC60950/EN60950
- VCCI (Japan): 2015-04 Class B
- IC (Canada): CISPR32 Class B: Canadian ICES-003:2016

## Related publications and links

For more information, see the following documents:

- Product Guide on ThinkSystem 5300 Entry 6Gb SATA SED SSDs  
<https://lenovopress.com/lp1254>
- Lenovo ThinkSystem storage options product web page  
<https://lenovopress.com/lp0761-storage-options-for-thinksystem-servers>
- Micron 5300 series product page  
<https://www.micron.com/5300>
- ServerProven support  
<http://www.lenovo.com/us/en/serverproven>
- Lenovo RAID Introduction  
<https://lenovopress.com/lp0578-lenovo-raid-introduction>
- Lenovo RAID Management Tools and Resources  
<https://lenovopress.com/lp0579-lenovo-raid-management-tools-and-resources>

## Related product families

Product families related to this document are the following:

- [Drives](#)

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