

Lenovo ThinkSystem SR530 Rack Servers Datasheet



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OVERVIEW

Lenovo ThinkSystem SR530 is an ideal 2-socket 1U rack server for small businesses up to large enterprises that need industry-leading reliability, management, and security, as well as cost-optimized performance and flexibility for future growth. Designed to handle a wide range of workloads, such as IT infrastructure, collaboration, and entry cloud, it can be the foundation of your online business. Featuring the Intel Xeon Processor Scalable Family, the SR530 server offers a balance of performance, capacity and value. The SR530 server supports up to two processors, up to 768 GB of 2666 MHz TruDDR4 memory, 8x 2.5-inch or 4x 3.5-inch drive bays with an extensive choice of SAS/SATA SSDs and SAS/SATA HDDs, and flexible I/O expansion options with the LOM slot and up to 3x PCIe slots. The SR530 server offers basic software RAID or advanced hardware RAID protection and a wide range of networking options, including embedded LOM, selectable LOM, ML2, and PCIe network adapters. The next-generation Lenovo XClarity Controller, which is built into the SR530 server, provides advanced service processor control, monitoring, and alerting functions.

The following figure shows the ThinkSystem SR530 server with 3.5-inch front hot-swap drives. Other drive configurations are also available.

Figure 1. Lenovo ThinkSystem SR530 with 3.5-inch hot-swap drives



KEY FEATURES

The SR530 server offers a balance of processing power, expandability, and cost for small and medium businesses up to the large enterprise. Ease of use and comprehensive systems management tools help make deployment easier and efficient design improves your business environment and helps save operational costs.

Scalability and performance

The SR530 server offers numerous features to boost performance, improve scalability, and reduce costs:

- Improves productivity by offering superior system performance with the Intel Xeon Processor Scalable Family with up to 20-core processors, up to 27.5 MB of last level cache (LLC), up to 2666 MHz memory speeds, and up to 10.4 GT/s Ultra Path Interconnect (UPI) links.
- Support for up to two processors, 40 cores, and 80 threads allows to maximize the concurrent execution of multithreaded applications.
- Intelligent and adaptive system performance with energy efficient Intel Turbo Boost 2.0 Technology allows CPU cores to run at maximum speeds during peak workloads by temporarily going beyond processor thermal design power (TDP).
- Intel Hyper-Threading Technology boosts performance for multithreaded applications by enabling simultaneous multithreading within each processor core, up to two threads per core.
- Intel Virtualization Technology integrates hardware-level virtualization hooks that allow operating system vendors to better utilize the hardware for virtualization workloads.
- Intel Advanced Vector Extensions 512 (AVX-512) enable acceleration of enterprise-class and high performance computing (HPC) workloads.
- Helps maximize system performance for data intensive applications with up to 2666 MHz memory speeds and up to 768 GB of memory capacity.
- Helps maximize system performance for data intensive applications with up to 2666 MHz memory speeds and up to 768 GB of memory capacity.
- Provides I/O scalability with the LOM slot and up to three PCI Express (PCIe) 3.0 I/O expansion slots in a 1U rack form factor.
- Reduces I/O latency and increases overall system performance with Intel Integrated I/O Technology that embeds the PCI Express 3.0 controller into the Intel Xeon Processor Scalable Family.

Availability and serviceability

The SR530 server provides many features to simplify serviceability and increase system uptime:

- Offers protection in the event of a non-correctable memory failure with Single Device Data Correction (SDDC, also known as Chipkill, requires x4-based DIMMs), Adaptive Double Device Data Correction (ADDDC, also known as Redundant Bit Steering [RBS], requires x4-based DIMMs and Intel Xeon Gold or Platinum processors), memory mirroring, and memory rank sparing.
- Provides easy access to upgrades and serviceable parts (such as processors, memory DIMMs, and adapter cards) with tool-less cover removal.
- Offers affordable data protection with software RAID and Simple Swap drives and advanced hardware RAID data redundancy with hot-swap drives.
- Provides availability for applications with redundant hot-swap power supplies and redundant non-hot-swap fans.
- Allows preventive actions in advance of possible failure, thereby increasing server uptime and application availability with Proactive Platform Alerts (including PFA and SMART alerts) for processors, voltage regulators, memory, internal storage (SAS/SATA HDDs and SSDs, M.2 storage), fans, power supplies, RAID controllers, and server ambient and sub-component temperatures.
- Continuously monitors system parameters, triggers alerts, and performs recovery actions in case of failure to minimize downtime with Built-in XClarity Controller (XCC).
- Provides quick access to system status, firmware, network, health, and alerts information via Virtual Operator Panel from the XClarity Mobile App running on the Android or iOS mobile device that is connected to the front USB port with XClarity Controller access.
- Speeds up troubleshooting tasks to reduce service time with diagnostics built into the XClarity Provisioning Manager.

Manageability and security

Powerful systems management features simplify local and remote management of the SR530 server and deliver enterprise-class data protection:

- Provides advanced service processor control, monitoring, and alerting functions with XClarity Controller, a next generation service processor.
- Improves Unified Extensible Firmware Interface (UEFI) system setup, configuration, updates, simplified error handling, and operating system deployment with the embedded XClarity Provisioning Manager.

- Offers XClarity Essentials software tools that can help you set up, use, and maintain the server.
- Increases uptime, reduces costs, and improves productivity through advanced server management capabilities with Lenovo XClarity Administrator that provides comprehensive hardware management.
- Provides on-the-go monitoring and management of devices in XClarity Administrator from anywhere with the Lenovo XClarity mobile app, which can help improve efficiency and reduce downtime risks.
- Centralizes infrastructure resource management with Lenovo XClarity Integrators for VMware vCenter and Microsoft System Center, extending XClarity Administrator features to virtualization management software tools and enabling users to deploy and manage infrastructure end-to-end.
- Offers advanced cryptographic functionality (such as digital signatures and remote attestation) with an integrated Trusted Platform Module (TPM) or optional Trusted Cryptographic Module (TCM) or Nationz TPM (available only in PRC).
- Keeps user data safe with Lenovo Business Vantage, a security software tool suite designed to work with the Trusted Cryptographic Module (available only in PRC).
- Offers enterprise-class data protection with advanced RAID and optional self-encrypting drives.
- Provides faster, stronger encryption with industry-standard AES NI support.
- Helps prevent certain classes of malicious buffer overflow attacks with Intel Execute Disable Bit functionality, when combined with a supporting operating system.
- Enhances security through hardware-based resistance to malicious software attacks with Intel Trusted Execution Technology, allowing an application to run in its own isolated space, protected from all other software running on a system.

Energy efficiency

The SR530 server offers the following energy-efficiency features to save energy, reduce operational costs, increase energy availability, and contribute to the green environment:

- Delivers impressive compute power per watt, featuring 80 PLUS Titanium and Platinum redundant power supplies.
- Enables customers to lower energy costs with design to meet ASHRAE A4 standards in select configurations.

- Reduces power drawn with Intel Intelligent Power Capability that powers individual processor elements on and off as needed.
- Helps reduce power consumption with variable speed fans.
- Helps achieve lower heat output and reduced cooling needs with Lenovo XClarity Energy Manager that provides advanced data center power notification, analysis, and policy-based management.

SYSTEM SPECIFICATIONS

The following table lists the system specifications for the SR530 server.

Table 1. SR530 system specifications

Attribute	Specification
Machine types	7X07 - 1 year warranty 7X08 - 3 year warranty
Form factor	1U rack-mount.
Processor	Up to two Intel Xeon Bronze, Silver, Gold, or Platinum processors: <ul style="list-style-type: none"> ● Up to 20 cores (2.0 GHz core speeds) ● Up to 3.6 GHz core speeds (4 cores) ● Two UPI links up to 10.4 GT/s each ● Up to 27.5 MB cache ● Up to 2666 MHz memory speed
Chipset	Intel C622
Memory	Up to 12 DIMM sockets (6 DIMMs per processor; six memory channels per processor with one DIMM per channel). Support for RDIMMs and LRDIMMs. Memory types cannot be

	intermixed. Memory speed up to 2666 MHz.
Memory capacity	<ul style="list-style-type: none"> ● With RDIMMs: Up to 384 GB with 12x 32 GB RDIMMs and two processors. ● With LRDIMMs: Up to 768 GB with 12x 64 GB LRDIMMs and two processors.
Memory protection	Error correction code (ECC), SDDC (for x4-based memory DIMMs), ADDDC (for x4-based memory DIMMs, requires Intel Xeon Gold or Platinum processors), memory mirroring, memory rank sparing, patrol scrubbing, and demand scrubbing.
Drive bays	<ul style="list-style-type: none"> ● 4 LFF SATA Simple Swap drive bays ● 4 LFF SAS/SATA hot-swap drive bays ● 8 SFF SAS/SATA hot-swap drive bays
Internal storage capacity	<ul style="list-style-type: none"> ● 2.5-inch drives: <ul style="list-style-type: none"> - 122.88TB using 8x 15.36TB 2.5-inch SAS/SATA SSDs - 19.2TB using 8x 2.4TB 2.5-inch HDDs ● 3.5-inch drives: <ul style="list-style-type: none"> - 72TB using 4x 18TB 3.5-inch HDDs - 30.72TB using 4x 7.68TB 3.5-inch SAS/SATA SSDs
Storage controller	<p>6 Gbps SATA Non-RAID:</p> <ul style="list-style-type: none"> ● Onboard SATA AHCI ● RAID 0/1/10/5: Onboard SATA RAID (Intel RSTe) <p>12 Gbps SAS/6 Gbps SATA RAID</p> <ul style="list-style-type: none"> ● RAID 0/1/10/5/50:

	<ul style="list-style-type: none"> - RAID 530-8i - RAID 730-8i 1GB Cache ● RAID 0/1/10/5/50/6/60: <ul style="list-style-type: none"> - RAID 730-8i 2GB Flash - RAID 930-8i 2GB Flash - RAID 930-16i 4GB or 8GB Flash <p>12 Gbps SAS/6 Gbps SATA non-RAID: 430-8i HBA</p>
Optical drive bays	None. Support for an external USB DVD RW Optical Disk Drive
Network interfaces	<ul style="list-style-type: none"> ● 2x Integrated 1 GbE RJ-45 ports (no 10/100 Mb support) ● Onboard LOM slot for up to two additional 1/10 Gb Ethernet ports: <ul style="list-style-type: none"> - 2x 1 GbE RJ-45 ports (no 10/100 Mb support) - 2x 10 GbE RJ-45 ports (no 10/100 Mb support) - 2x 10 GbE SFP+ ports (no 10/100 Mb support) ● Optional Mezzanine LOM (ML2) slot for dual-port 10 GbE cards with SFP+ or RJ-45 connectors. ● 1x RJ-45 10/100/1000 Mb Ethernet systems management port.
I/O expansion slots	<p>Up to three slots depending on the riser cards installed. The slots are as follows:</p> <ul style="list-style-type: none"> ● Slot 1: PCIe 3.0 x8; low profile ● Slot 2: PCIe 3.0 x16 or ML2 x8; low profile or full-height, half-length ● Slot 3: PCIe 3.0 x8 or x16; low profile

	PCIe x16 slot 3 requires the second processor to be installed.
Ports	<ul style="list-style-type: none"> ● Front: <ul style="list-style-type: none"> - 1x USB 2.0 port with XClarity Controller access. - 1x USB 3.0 port. - 1x VGA port (optional). ● Rear: 2x USB 3.0 ports and 1x VGA port. Optional 1x DB-9 serial port.
Cooling	Four (one processor) or six (two processors) non-hot-swap system fans with N+1 redundancy.
Power supply	Up to two redundant hot-swap 550 W or 750 W (100 - 240 V) High Efficiency Platinum or 750 W (200 - 240 V) High Efficiency Titanium AC power supplies. HVDC support (PRC only).
Video	Matrox G200 with 16 MB memory integrated into the XClarity Controller. Maximum resolution is 1920x1200 at 60 Hz with 32 bits per pixel.
Hot-swap parts	Drives (select models) and power supplies.
Systems management	XClarity Controller (XCC) Standard, Advanced, or Enterprise (Pilot 4 chip), proactive platform alerts, XClarity Provisioning Manager, XClarity Essentials, XClarity Administrator, XClarity Integrators for VMware vCenter and Microsoft System Center, XClarity Energy Manager, Capacity Planner.
Security features	Power-on password, administrator's password, secure firmware updates, Trusted Platform Module (TPM) 1.2 or 2.0 (configurable UEFI setting). Optional lockable front bezel. Optional Trusted Cryptographic Module (TCM) or Nationz TPM (available only in PRC). Optional Lenovo Business Vantage security software (available only in PRC).

Operating systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi.
Warranty	One-year (7X07) or three-year (7X08) customer-replaceable unit (CRU) and onsite limited warranty with 9x5 Next Business Day Parts Delivered.
Service and support	Optional service upgrades are available through Lenovo Services: 2-hour or 4-hour response time, 6-hour or 24-hour committed service repair, warranty extension up to 5 years, 1-year or 2- year post-warranty extensions, YourDrive Your Data, Enterprise Software Support, and Basic Hardware Installation Services.
Dimensions	Width: 435 mm (17.1 in.), height: 43 mm (1.7 in.), depth: 750 mm (29.5 in.).
Weight	Minimum configuration: 10.2 kg (22.5 lb), maximum: 16 kg (35.3 lb)

PROCESSORS

The SR530 server supports one or two Intel Xeon Bronze, Silver, Gold, or Platinum processors of up to 125 W TDP.

The following table lists the specifications of the processors for the SR530 server.

Table 2. Processor specifications (HT = Hyper-Threading, TB = Turbo Boost, VT = Virtualization Technology)

CPU model	Core frequency (Base / TB Max)	Number of cores / threads	Cache	Max DDR4 frequency	Max memory per socket	UPI speed	TDP	HT	TB	VT-x	VT-d

Intel Xeon Bronze processors											
3104	1.7 / 1.7 GHz	6 / 6	8.25 MB	2133 MHz	768 GB	9.6 GT/s	85 W	No	No	Yes	Yes
3106	1.7 / 1.7 GHz	8 / 8	11 MB	2133 MHz	768 GB	9.6 GT/s	85 W	No	No	Yes	Yes
Intel Xeon Silver processors											
4108	1.8 / 3.0 GHz	8 / 16	11 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
4109T	2.0 / 3.0 GHz	8 / 16	11 MB	2400 MHz	768 GB	9.6 GT/s	70 W	Yes	Yes	Yes	Yes
4110	2.1 / 3.0 GHz	8 / 16	11 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
4112	2.6 / 3.0 GHz	4 / 8	8.25 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
4114	2.2 / 3.0 GHz	10 / 20	13.75 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
4114T	2.2 / 3.0 GHz	10 / 20	13.75 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
4116	2.1 / 3.0 GHz	12 / 24	16.5 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
4116T	2.1 / 3.0 GHz	12 / 24	16.5 MB	2400 MHz	768 GB	9.6 GT/s	85 W	Yes	Yes	Yes	Yes
Intel Xeon Gold processors											

5115	2.4 / 3.2 GHz	10 / 20	13.75 MB	2400 MHz	768 GB	10.4 GT/s	85 W	Yes	Yes	Yes	Yes
5117	2.0 / 2.8 GHz	14 / 28	19.25 MB	2400 MHz	768 GB	10.4 GT/s	105 W	Yes	Yes	Yes	Yes
5118	2.3 / 3.2 GHz	12 / 24	16.5 MB	2400 MHz	768 GB	10.4 GT/s	105 W	Yes	Yes	Yes	Yes
5119T	1.9 / 3.2 GHz	14 / 28	19.25 MB	2400 MHz	768 GB	10.4 GT/s	85 W	Yes	Yes	Yes	Yes
5120	2.2 / 3.2 GHz	14 / 28	19.25 MB	2400 MHz	768 GB	10.4 GT/s	105 W	Yes	Yes	Yes	Yes
5120T	2.2 / 3.2 GHz	14 / 28	19.25 MB	2400 MHz	768 GB	10.4 GT/s	105 W	Yes	Yes	Yes	Yes
5122	3.6 / 3.7 GHz	4 / 8	16.5 MB	2666 MHz	768 GB	10.4 GT/s	105 W	Yes	Yes	Yes	Yes
6126	2.6 / 3.7 GHz	12 / 24	19.25 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes
6126T	2.6 / 3.7 GHz	12 / 24	19.25 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes
6128	3.4 / 3.7 GHz	6 / 12	19.25 MB	2666 MHz	768 GB	10.4 GT/s	115 W	Yes	Yes	Yes	Yes
6130	2.1 / 3.7 GHz	16 / 32	22 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes
6130T	2.1 / 3.7 GHz	16 / 32	22 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes

6138	2.0 / 3.7 GHz	20 / 40	27.5 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes
6138T	2.0 / 3.7 GHz	20 / 40	27.5 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes
Intel Xeon Platinum processors											
8153	2.0 / 2.8 GHz	16 / 32	22 MB	2666 MHz	768 GB	10.4 GT/s	125 W	Yes	Yes	Yes	Yes
8156	3.6 / 3.7 GHz	4 / 8	16.5 MB	2666 MHz	768 GB	10.4 GT/s	105 W	Yes	Yes	Yes	Yes

For the SR530 server models that come with one processor, the second processor can be ordered, if required (see the following table for ordering information). The second processor must be of the same model as the first processor. The second processor option includes a processor, a heatsink, and two additional system fans.

Table 3. Processor options

Description	Part number	Feature code
Intel Xeon Bronze processors		
ThinkSystem SR530 Intel Xeon Bronze 3104 6C 85W 1.7GHz Processor Option Kit	4XG7A07207	AWEJ
ThinkSystem SR530 Intel Xeon Bronze 3106 8C 85W 1.7GHz Processor Option Kit	4XG7A07206	AWEH
Intel Xeon Silver processors		
ThinkSystem SR530 Intel Xeon Silver 4108 8C 85W 1.8GHz Processor Option Kit	4XG7A07205	AWEG

ThinkSystem SR530 Intel Xeon Silver 4109T 8C 70W 2.0GHz Processor Option Kit	4XG7A07204	AWET
ThinkSystem SR530 Intel Xeon Silver 4110 8C 85W 2.1GHz Processor Option Kit	4XG7A07203	AWEE
ThinkSystem SR530 Intel Xeon Silver 4112 4C 85W 2.6GHz Processor Option Kit	4XG7A07202	AWEF
ThinkSystem SR530 Intel Xeon Silver 4114 10C 85W 2.2GHz Processor Option Kit	4XG7A07201	AWEC
ThinkSystem SR530 Intel Xeon Silver 4114T 10C 85W 2.2GHz Processor Option Kit	4XG7A09059	AWES
ThinkSystem SR530 Intel Xeon Silver 4116 12C 85W 2.1GHz Processor Option Kit	4XG7A07200	AWER
ThinkSystem SR530 Intel Xeon Silver 4116T 12C 85W 2.1GHz Processor Option Kit	4XG7A09058	AWEA
Intel Xeon Gold processors		
ThinkSystem SR530 Intel Xeon Gold 5115 10C 85W 2.4GHz Processor Option Kit	4XG7A07189	AWDU
ThinkSystem SR530 Intel Xeon Gold 5117 14C 105W 2.0GHz Processor Option Kit	4XG7A09085	B137
ThinkSystem SR530 Intel Xeon Gold 5118 12C 105W 2.3GHz Processor Option Kit	4XG7A07188	AWEP
ThinkSystem SR530 Intel Xeon Gold 5119T 14C 85W 1.9GHz Processor Option Kit	4XG7A09057	AWEQ
ThinkSystem SR530 Intel Xeon Gold 5120 14C 105W 2.2GHz Processor	4XG7A07187	AWE6

Option Kit		
ThinkSystem SR530 Intel Xeon Gold 5120T 14C 105W 2.2GHz Processor Option Kit	4XG7A07186	AWE8
ThinkSystem SR530 Intel Xeon Gold 5122 4C 105W 3.6GHz Processor Option Kit	4XG7A07179	AWED
ThinkSystem SR530 Intel Xeon Gold 6126 12C 125W 2.6GHz Processor Option Kit	4XG7A07180	AWEL
ThinkSystem SR530 Intel Xeon Gold 6126T 12C 125W 2.6GHz Processor Option Kit	4XG7A07185	AWE5
ThinkSystem SR530 Intel Xeon Gold 6128 6C 115W 3.4GHz Processor Option Kit	4XG7A09055	AWEB
ThinkSystem SR530 Intel Xeon Gold 6130 16C 125W 2.1GHz Processor Option Kit	4XG7A07184	AWEN
ThinkSystem SR530 Intel Xeon Gold 6130T 16C 125W 2.1GHz Processor Option Kit	4XG7A07183	AWE4
ThinkSystem SR530 Intel Xeon Gold 6138 20C 125W 2.0GHz Processor Option Kit	4XG7A07182	AWDZ
ThinkSystem SR530 Intel Xeon Gold 6138T 20C 125W 2.0GHz Processor Option Kit	4XG7A09056	AWEM
Intel Xeon Platinum processors		
ThinkSystem SR530 Intel Xeon Platinum 8153 16C 125W 2.0GHz Processor Option Kit	4XG7A07181	AWDR
ThinkSystem SR530 Intel Xeon Platinum 8156 4C 105W 3.6GHz Processor Option Kit	4XG7A07178	AWDL

* For CTO configurations, the feature code represents a processor, and fans and heatsinks are derived by the configurator.

MEMORY

The SR530 server supports up to 6 TruDDR4 memory DIMMs with one processor and up to 12 DIMMs when two processors are installed. Each processor has six memory channels, and there is a one DIMM per channel.

Lenovo TruDDR4 memory uses the highest-quality components sourced from Tier 1 DRAM suppliers and only memory that meets strict requirements is selected. It is compatibility tested and tuned on every ThinkSystem server to maximize performance and reliability.

TruDDR4 memory has a unique signature programmed into the DIMM, which enables Lenovo servers to verify whether the memory installed is qualified and supported. Lenovo qualified and supported TruDDR4 memory is covered by Lenovo warranty, and service and support provided worldwide.

The following rules apply when selecting the memory configuration:

- The server supports RDIMMs and LRDIMMs.
- Mixing different types of memory (RDIMMs and LRDIMMs) is not supported.
- Mixing x4 and x8 RDIMMs and RDIMMs of different capacity is supported.
- All DIMMs in the server operate at the same speed up to 2666 MHz, which is determined by the maximum memory speed supported by the specific processor.

Note: Maximum memory speed can be achieved when Max performance mode is enabled in UEFI.

- The following maximum memory capacities supported by the server:

- RDIMMs: 384 GB (192 GB per processor).

- LRDIMMs: 768 GB (384 GB per processor).

The following memory protection technologies are supported:

- ECC
- SDDC (for x4-based memory DIMMs)

- ADDDC (for x4-based memory DIMMs; Gold and Platinum processors only)
- Memory mirroring
- Memory rank sparing
- Patrol scrubbing
- Demand scrubbing

Single Device Data Correction (SDDC) works only in the independent channel mode (the default operational mode) and supports only x4-based memory DIMMs.

Adaptive Double Device Data Correction (ADDDC) works with x4-based memory DIMMs and requires two DIMM ranks per channel, Intel Xeon Gold or Platinum processors, and the Closed Page memory access mode.

If memory mirroring is used, then DIMMs must be installed in pairs (a minimum of one pair per each processor), and both DIMMs in a pair must be identical in type and size.

If memory rank sparing is used, then a minimum of one quad-rank DIMM or two single-rank or dual-rank DIMMs must be installed per populated channel (the DIMMs do not need being identical). In rank sparing mode, one rank of a DIMM in each populated channel is reserved as spare memory. The size of a rank varies depending on the DIMMs installed.

SDDC, memory mirroring, and memory rank sparing modes are mutually exclusive. Only one operational memory mode can be enabled on the server, and it is a system-wide setting.

The following table lists memory options available for the SR530 server.

Table 4. Memory options available for the SR530 server

Description	Part number	Feature code	Maximum quantity*
RDIMMs - 2666 MHz			
ThinkSystem 8GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM	7X77A01301	AUU1	6 / 12

ThinkSystem 16GB TruDDR4 2666 MHz (1Rx4 1.2V) RDIMM	7X77A01302	AUNB	6 / 12
ThinkSystem 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM	7X77A01303	AUNC	6 / 12
ThinkSystem 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM	7X77A01304	AUND	6 / 12
LRDIMMs - 2666 MHz			
ThinkSystem 64GB TruDDR4 2666 MHz (4Rx4 1.2V) LRDIMM	7X77A01305	AUNE	6 / 12

* The maximum quantity shown is with one processor / two processors

INTERNAL STORAGE

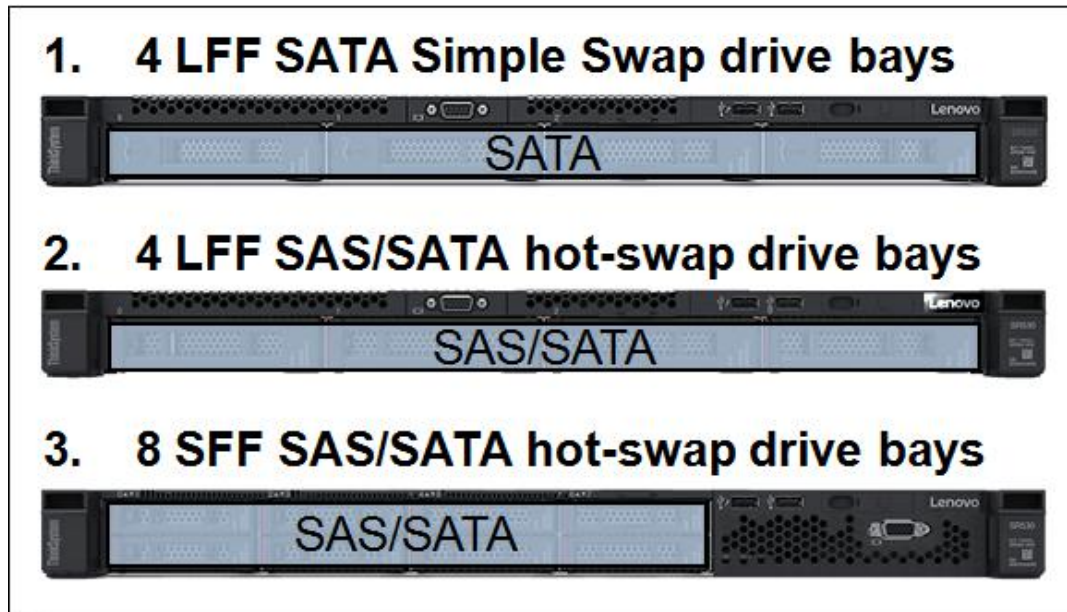
The SR530 server supports the following internal drive bay configurations:

- 4 LFF SATA Simple Swap drive bays
- 4 LFF SAS/SATA hot-swap drive bays
- 8 SFF SAS/SATA hot-swap drive bays

In addition, the SR530 server models can be configured with one or two internal M.2 SATA SSDs. The server also supports configurations without drive bays.

The following figure shows the internal drive bay configurations.

Figure 2. Internal drive bay configurations



The following table lists the internal storage options for the SR530 server.

Table 5. Internal storage options

Description	Part number	Feature code	Maximum quantity
Factory-installed backplane kits			
ThinkSystem 1U 3.5" SATA/SAS 4-Bay Backplane	None*	AUW8	1
ThinkSystem 1U 2.5" SATA/SAS 8-Bay Backplane	None*	AUWB	1
Backplane kit field upgrade options			
ThinkSystem 1U 2.5" SATA/SAS 8-Bay Backplane Kit	7XH7A05896	None**	1

M.2 enablement kits			
ThinkSystem M.2 Enablement Kit	7Y37A01092	AUMU	1
ThinkSystem M.2 with Mirroring Enablement Kit	7Y37A01093	AUMV	1

* These backplane kits can be factory-installed in standard or custom (CTO or Special Bid) models, and they might not have an option part number assigned.

** Field upgrade only; used for upgrading models without any drive bays to 8x 2.5" SAS/SATA hot-swap drive bays.

CONTROLLERS FOR INTERNAL STORAGE

The following table lists the storage controllers and options for internal storage of the SR530 server.

Table 6. RAID controllers and HBAs for internal storage

Description	Part number	Feature code	Maximum quantity	I/O slots supported
6 Gbps SATA controllers				
Onboard AHCI (non-RAID) / Intel RSTe (RAID)	Onboard*	Onboard*	1	-
12 Gb SAS/SATA RAID controllers				
ThinkSystem RAID 530-8i PCIe 12Gb Adapter	7Y37A01082	AUNG	1	1
ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter	7Y37A01083	AUNH	1	1
ThinkSystem RAID 730-8i 2GB Flash PCIe 12Gb	4Y37A09722	B4RQ	1	1

Adapter				
ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter	7Y37A01084	AUNJ	1	1
ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter	7Y37A01085	AUNK	1	1
ThinkSystem RAID 930-16i 8GB Flash PCIe 12Gb Adapter	4Y37A09721	B31E	1	1
12 Gb SAS/SATA non-RAID HBAs				
ThinkSystem 430-8i SAS/SATA 12Gb HBA	7Y37A01088	AUNL	1	1

* The onboard SATA controller integrated into the Intel C622 Platform Controller Hub (PCH) supports non-RAID (JBOD) AHCI mode or a hardware-assist, software RAID feature (Intel Rapid Storage Technology Enterprise [RSTe]).

Configuration note: Low profile SAS RAID controllers and HBAs for internal storage are supported in the PCIe x8 slot 1 supplied by the riser card 1.

The following table summarizes features of supported SAS/SATA storage controllers.

Table 7. Storage controller features and specifications (LP = Low profile, FHHL = Full-height half-length)

Feature	Intel RSTe	RAID 530-8i	RAID 730-8i 1GB	RAID 730-8i 2GB	RAID 930-8i	RAID 930-16i	430-8i HBA
Form factor	Onboard	PCIe LP	PCIe LP	PCIe LP	PCIe LP	PCIe LP	PCIe LP
SAS controller	None	SAS3408	SAS3108	SAS3108	SAS3508	SAS3516	SAS3408
Host	PCH	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0

interface		x8	x8	x8	x8	x8	x8
Port interface	6 Gb SATA	12 Gb SAS	12 Gb SAS	12 Gb SAS	12 Gb SAS	12 Gb SAS	12 Gb SAS
Number of ports	8	8	8	8	8	16	8
Connector type	SATA x4	SFF-8643 x4	SFF-8643 x4	SFF-8643 x4	SFF-8643 x4	SFF-8643 x4	SFF-8643 x4
Number of connectors	2	2	2	2	2	4	2
Drive interface	SATA	SAS, SATA	SAS, SATA	SAS, SATA	SAS, SATA	SAS, SATA	SAS, SATA
Drive type	HDD	HDD, SSD, SED	HDD, SSD	HDD, SSD, SED	HDD, SSD, SED	HDD, SSD, SED	HDD, SSD, SED*
Hot-swap drive support	No	Yes	Yes	Yes	Yes	Yes	Yes
Number of drives	8	8	8	8	8	16^	8
RAID levels	0/1/10/5/5	0/1/10/5/50	0/1/10/5/50	0/1/10/5/50/6/60	0/1/10/5/50/6/60	0/1/10/5/50/6/60	None
JBOD mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cache	None	None	1 GB	2 GB	2 GB	4 GB; 8 GB	None
Cache protection	None	None	None	Flash backup	Flash backup	Flash backup	None

				(Included)	(Included)	(Included)	
SED key management (SafeStore)	No	Yes	No	Yes	Yes	Yes	No
SSD I/O acceleration (FastPath)	No	Yes	No	Yes	Yes	Yes	No
SSD Caching (CacheCade Pro 2.0)	No	No	No	No	No**	No**	No
Consistency check	Yes	Yes	Yes	Yes	Yes	Yes	No
Patrol read	Yes	Yes	Yes	Yes	Yes	Yes	No
Online capacity expansion	Yes	Yes	Yes	Yes	Yes	Yes	No
Online RAID level migration	Yes	Yes	Yes	Yes	Yes	Yes	No
Global Hot Spare	Yes	Yes	Yes	Yes	Yes	Yes	No
Auto-rebuild	Yes	Yes	Yes	Yes	Yes	Yes	No

* HBAs do not support key management for SEDs; third-party host software is responsible for managing the keys.

^ Up to 8 drives is supported by the RAID 930-16i in the SR530 server.

** The SSD caching feature has been phased out in the new generation of advanced RAID controllers.

Important: The onboard Intel RSTe is not supported by virtualization hypervisors, including VMware vSphere (ESXi), Linux KVM, Xen, and Microsoft Hyper-V.

M.2 drive support: The use of M.2 drives requires an additional adapter as described in the Internal storage section.

Table 8. 2.5-inch hot-swap 12 Gb SAS HDDs

Part number	Feature	Description	Maximum supported
2.5-inch hot-swap HDDs - 12 Gb SAS 10K			
7XB7A00024	AULY	ThinkSystem 2.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00025	AULZ	ThinkSystem 2.5" 600GB 10K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00026	AUM0	ThinkSystem 2.5" 900GB 10K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00027	AUM1	ThinkSystem 2.5" 1.2TB 10K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00028	AUM2	ThinkSystem 2.5" 1.8TB 10K SAS 12Gb Hot Swap 512e HDD	8
7XB7A00069	BOYS	ThinkSystem 2.5" 2.4TB 10K SAS 12Gb Hot Swap 512e HDD	8
2.5-inch hot-swap HDDs - 12 Gb SAS 15K			
XB7A00021	AULV	ThinkSystem 2.5" 300GB 15K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00022	AULW	ThinkSystem 2.5" 600GB 15K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00023	AULX	ThinkSystem 2.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD	8
2.5-inch hot-swap HDDs - 12 Gb NL SAS			
7XB7A00034	AUM6	ThinkSystem 2.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD	8
7XB7A00035	AUM7	ThinkSystem 2.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	8

2.5-inch hot-swap SED HDDs - 12 Gb SAS 10K			
7XB7A00030	AUM4	ThinkSystem 2.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD SED	8
7XB7A00031	AUM5	ThinkSystem 2.5" 600GB 10K SAS 12Gb Hot Swap 512n HDD SED	8

Table 9. 2.5-inch hot-swap 6 Gb SATA HDDs

Part number	Feature	Description	Maximum supported
2.5-inch hot-swap HDDs - 6 Gb NL SATA			
7XB7A00036	AUUE	ThinkSystem 2.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	8
7XB7A00037	AUUJ	ThinkSystem 2.5" 2TB 7.2K SATA 6Gb Hot Swap 512e HDD	8

Table 10. 2.5-inch hot-swap 12 Gb SAS SSDs

Part number	Feature	Description	Maximum supported
2.5-inch hot-swap SSDs - 12 Gb SAS - Mainstream (3-5 DWPD)			
4XB7A17062	B8HU	ThinkSystem 2.5" PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD	8
4XB7A17063	B8J4	ThinkSystem 2.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	8
4XB7A17064	B8JD	ThinkSystem 2.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD	8
4XB7A17065	B8JA	ThinkSystem 2.5" PM1645a 6.4TB Mainstream SAS 12Gb Hot Swap SSD	8

4XB7A13654	B4A1	ThinkSystem 2.5" PM1645 1.6TB Mainstream SAS 12Gb Hot Swap SSD	8
4XB7A13655	B4A2	ThinkSystem 2.5" PM1645 3.2TB Mainstream SAS 12Gb Hot Swap SSD	8
2.5-inch hot-swap SSDs - 12 Gb SAS - Entry / Capacity (<3 DWPD)			
4XB7A38175	B91A	ThinkSystem 2.5" PM1643a 960GB Entry SAS 12Gb Hot Swap SSD	8
4XB7A38176	B91B	ThinkSystem 2.5" PM1643a 1.92TB Entry SAS 12Gb Hot Swap SSD	8
4XB7A17054	B91C	ThinkSystem 2.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD	8
4XB7A17055	B91D	ThinkSystem 2.5" PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD	8
4XB7A17056	BC4R	ThinkSystem 2.5" PM1643a 15.36TB Entry SAS 12Gb Hot Swap SSD	8
4XB7A13645	B4A7	ThinkSystem 2.5" PM1643 3.84TB Capacity SAS 12Gb Hot Swap SSD	8

Table 11. 2.5-inch hot-swap 6 Gb SATA SSDs

Part number	Feature	Description	Maximum supported
2.5-inch hot-swap SSDs - 6 Gb SATA - Mainstream (3-5 DWPD)			
4XB7A17087	B8J1	ThinkSystem 2.5" 5300 240GB Mainstream SATA 6Gb Hot Swap SSD	8

4XB7A17088	B8HY	ThinkSystem 2.5" 5300 480GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A17089	B8J6	ThinkSystem 2.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A17090	B8JE	ThinkSystem 2.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A17091	B8J7	ThinkSystem 2.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A13633	B49L	ThinkSystem 2.5" Intel S4610 240GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A13634	B49M	ThinkSystem 2.5" Intel S4610 480GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A13635	B49N	ThinkSystem 2.5" Intel S4610 960GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A13636	B49P	ThinkSystem 2.5" Intel S4610 1.92TB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A13637	B49Q	ThinkSystem 2.5" Intel S4610 3.84TB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A10237	B488	ThinkSystem 2.5" 5200 240GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A10239	B48A	ThinkSystem 2.5" 5200 960GB Mainstream SATA 6Gb Hot Swap SSD	8
4XB7A10240	B48B	ThinkSystem 2.5" 5200 1.92TB Mainstream SATA 6Gb Hot Swap SSD	8

4XB7A10241	B48C	ThinkSystem 2.5" 5200 3.84TB Mainstream SATA 6Gb Hot Swap SSD	8
2.5-inch hot-swap SSDs - 6 Gb SATA - Entry (<3 DWPD)			
4XB7A38271	BCTC	ThinkSystem 2.5" Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A38272	BCTD	ThinkSystem 2.5" Multi Vendor 480GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A38273	BCTE	ThinkSystem 2.5" Multi Vendor 960GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A38274	BCTF	ThinkSystem 2.5" Multi Vendor 1.92TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A38275	BCTG	ThinkSystem 2.5" Multi Vendor 3.84TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A17075	B8HV	ThinkSystem 2.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A17076	B8JM	ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A17077	B8HP	ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A17078	B8J5	ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A17079	B8JP	ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A17080	B8J2	ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A38185	B9AC	ThinkSystem 2.5" 5210 960GB Entry SATA 6Gb Hot Swap QLC SSD	8
4XB7A38144	B7EW	ThinkSystem 2.5" 5210 1.92TB Entry SATA 6Gb Hot Swap QLC SSD	8

4XB7A38145	B7EX	ThinkSystem 2.5" 5210 3.84TB Entry SATA 6Gb Hot Swap QLC SSD	8
4XB7A38146	B7EY	ThinkSystem 2.5" 5210 7.68TB Entry SATA 6Gb Hot Swap QLC SSD	8
4XB7A10247	B498	ThinkSystem 2.5" Intel S4510 240GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10248	B499	ThinkSystem 2.5" Intel S4510 480GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10249	B49A	ThinkSystem 2.5" Intel S4510 960GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A13622	B49B	ThinkSystem 2.5" Intel S4510 1.92TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A13623	B49C	ThinkSystem 2.5" Intel S4510 3.84TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10195	B34H	ThinkSystem 2.5" PM883 240GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10196	B34J	ThinkSystem 2.5" PM883 480GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10197	B34K	ThinkSystem 2.5" PM883 960GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10198	B34L	ThinkSystem 2.5" PM883 1.92TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10199	B34M	ThinkSystem 2.5" PM883 3.84TB Entry SATA 6Gb Hot Swap SSD	8

4XB7A10200	B4D2	ThinkSystem 2.5" PM883 7.68TB Entry SATA 6Gb Hot Swap SSD	8
7SD7A05740	B0Z0	ThinkSystem 2.5" Intel S4500 960GB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10155	B2X4	ThinkSystem 2.5" 5200 1.92TB Entry SATA 6Gb Hot Swap SSD	8
4XB7A10157	B2X6	ThinkSystem 2.5" 5200 7.68TB Entry SATA 6Gb Hot Swap SSD	8

Table 12. 3.5-inch hot-swap 12 Gb SAS HDDs

Part number	Feature	Description	Maximum supported
3.5-inch hot-swap HDDs - 12 Gb SAS 10K			
7XB7A00063	B1JJ	ThinkSystem 3.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD	4
3.5-inch hot-swap HDDs - 12 Gb SAS 15K			
7XB7A00038	AUU2	ThinkSystem 3.5" 300GB 15K SAS 12Gb Hot Swap 512n HDD	4
7XB7A00039	AUU3	ThinkSystem 3.5" 600GB 15K SAS 12Gb Hot Swap 512n HDD	4
7XB7A00040	AUUC	ThinkSystem 3.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD	4
3.5-inch hot-swap HDDs - 12 Gb NL SAS			
7XB7A00041	AUU4	ThinkSystem 3.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD	4
7XB7A00042	AUU5	ThinkSystem 3.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	4
7XB7A00043	AUU6	ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD	4
7XB7A00044	AUU7	ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD	4

7XB7A00045	B0YR	ThinkSystem 3.5" 8TB 7.2K SAS 12Gb Hot Swap 512e HDD	4
7XB7A00046	AUUG	ThinkSystem 3.5" 10TB 7.2K SAS 12Gb Hot Swap 512e HDD	4
7XB7A00067	B117	ThinkSystem 3.5" 12TB 7.2K SAS 12Gb Hot Swap 512e HDD	4
4XB7A13906	B496	ThinkSystem 3.5" 14TB 7.2K SAS 12Gb Hot Swap 512e HDD	4
4XB7A13911	B7EZ	ThinkSystem 3.5" 16TB 7.2K SAS 12Gb Hot Swap 512e HDD	4
4XB7A38266	BCFP	ThinkSystem 3.5" 18TB 7.2K SAS 12Gb Hot Swap 512e HDD	4
3.5-inch hot-swap SED HDDs - 12 Gb NL SAS			
7XB7A00047	AUUH	ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD FIPS	4

Table 13. 3.5-inch hot-swap 6 Gb SATA HDDs

Part number	Feature	Description	Maximum supported
3.5-inch hot-swap HDDs - 6 Gb NL SATA			
7XB7A00049	AUUF	ThinkSystem 3.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	4
7XB7A00050	AUUD	ThinkSystem 3.5" 2TB 7.2K SATA 6Gb Hot Swap 512n HDD	4
7XB7A00051	AUU8	ThinkSystem 3.5" 4TB 7.2K SATA 6Gb Hot Swap 512n HDD	4
7XB7A00052	AUUA	ThinkSystem 3.5" 6TB 7.2K SATA 6Gb Hot Swap 512e HDD	4
7XB7A00053	AUU9	ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	4
7XB7A00054	AUUB	ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	4
7XB7A00068	B118	ThinkSystem 3.5" 12TB 7.2K SATA 6Gb Hot Swap 512e HDD	4

4XB7A13907	B497	ThinkSystem 3.5" 14TB 7.2K SATA 6Gb Hot Swap 512e HDD	4
4XB7A13914	B7F0	ThinkSystem 3.5" 16TB 7.2K SATA 6Gb Hot Swap 512e HDD	4
4XB7A38130	BCFH	ThinkSystem 3.5" 18TB 7.2K SATA 6Gb Hot Swap 512e HDD	4

Table 14. 3.5-inch hot-swap 12 Gb SAS SSDs

Part number	Feature	Description	Maximum supported
3.5-inch hot-swap SSDs - 12 Gb SAS - Mainstream (3-5 DWPD)			
4XB7A17066	B8HT	ThinkSystem 3.5" PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD	4
4XB7A17043	B8JN	ThinkSystem 3.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	4
4XB7A17067	B8JK	ThinkSystem 3.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD	4
4XB7A17068	B8JG	ThinkSystem 3.5" PM1645a 6.4TB Mainstream SAS 12Gb Hot Swap SSD	4
4XB7A13658	B4A4	ThinkSystem 3.5" PM1645 1.6TB Mainstream SAS 12Gb Hot Swap SSD	4
3.5-inch hot-swap SSDs - 12 Gb SAS - Entry / Capacity (<3 DWPD)			
4XB7A17058	B91E	ThinkSystem 3.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD	4
4XB7A17059	BEVK	ThinkSystem 3.5" PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD	4
4XB7A13649	B4A8	ThinkSystem 3.5" PM1643 3.84TB Capacity SAS 12Gb Hot	4

		Swap SSD	
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Table 15. 3.5-inch hot-swap 6 Gb SATA SSDs

Part number	Feature	Description	Maximum supported
3.5-inch hot-swap SSDs - 6 Gb SATA - Mainstream (3-5 DWPD)			
4XB7A17096	B8JL	ThinkSystem 3.5" 5300 240GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A17097	B8JF	ThinkSystem 3.5" 5300 480GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A17098	B8JO	ThinkSystem 3.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A17099	B8HR	ThinkSystem 3.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A17100	B8HX	ThinkSystem 3.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A13639	B49R	ThinkSystem 3.5" Intel S4610 240GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A13640	B49S	ThinkSystem 3.5" Intel S4610 480GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A13641	B49T	ThinkSystem 3.5" Intel S4610 960GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A13642	B49U	ThinkSystem 3.5" Intel S4610 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A13643	B49V	ThinkSystem 3.5" Intel S4610 3.84TB Mainstream SATA 6Gb	4

		Hot Swap SSD	
4XB7A10242	B48D	ThinkSystem 3.5" 5200 240GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A10244	B48F	ThinkSystem 3.5" 5200 960GB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A10245	B48G	ThinkSystem 3.5" 5200 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4
4XB7A10246	B48H	ThinkSystem 3.5" 5200 3.84TB Mainstream SATA 6Gb Hot Swap SSD	4
3.5-inch hot-swap SSDs - 6 Gb SATA - Entry (<3 DWPD)			
4XB7A38276	BCTH	ThinkSystem 3.5" Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A38277	BCTJ	ThinkSystem 3.5" Multi Vendor 480GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A38278	BCTK	ThinkSystem 3.5" Multi Vendor 960GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A38279	BCTL	ThinkSystem 3.5" Multi Vendor 1.92TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A38281	BCTM	ThinkSystem 3.5" Multi Vendor 3.84TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17081	B8JB	ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17082	B8J9	ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17083	B8JC	ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD	4

4XB7A17084	B8HZ	ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17085	B8HQ	ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17086	B8J3	ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A13625	B49D	ThinkSystem 3.5" Intel S4510 240GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A13626	B49E	ThinkSystem 3.5" Intel S4510 480GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A13627	B49F	ThinkSystem 3.5" Intel S4510 960GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A13628	B49G	ThinkSystem 3.5" Intel S4510 1.92TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A13629	B49H	ThinkSystem 3.5" Intel S4510 3.84TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17176	B6TM	ThinkSystem 3.5" PM883 240GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17177	B6TN	ThinkSystem 3.5" PM883 480GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17178	B6TP	ThinkSystem 3.5" PM883 960GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17179	B6JY	ThinkSystem 3.5" PM883 1.92TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A17180	B6JZ	ThinkSystem 3.5" PM883 3.84TB Entry SATA 6Gb Hot Swap SSD	4

7SD7A05735	B0Z5	ThinkSystem 3.5" Intel S4500 960GB Entry SATA 6Gb Hot Swap SSD	4
4XB7A10160	B2X9	ThinkSystem 3.5" 5200 1.92TB Entry SATA 6Gb Hot Swap SSD	4
4XB7A10162	B2XB	ThinkSystem 3.5" 5200 7.68TB Entry SATA 6Gb Hot Swap SSD	4

Table 16. 3.5-inch simple-swap 6 Gb SATA HDDs

Part number	Feature	Description	Maximum supported
3.5-inch simple-swap HDDs - 6 Gb NL SATA			
7XB7A00055	AUZS	ThinkSystem 1TB 7.2K 6Gbps SATA 3.5" Simple Swap 512n HDD	4
7XB7A00056	AUZT	ThinkSystem 2TB 7.2K 6Gbps SATA 3.5" Simple Swap 512n HDD	4
7XB7A00057	AUZU	ThinkSystem 4TB 7.2K 6Gbps SATA 3.5" Simple Swap 512n HDD	4
7XB7A00058	AXC7	ThinkSystem 6TB 7.2K 6Gbps SATA 3.5" Simple Swap 512e HDD	4
7XB7A00059	AXC6	ThinkSystem 8TB 7.2K 6Gbps SATA 3.5" Simple Swap 512e HDD	4
7XB7A00060	AXC8	ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Simple Swap 512e HDD	4

Table 17. M.2 SATA drives

Part number	Feature	Description	Maximum supported
M.2 SSDs - 6 Gb SATA - Entry (<3 DWPD)			
7N47A00129	AUUL	ThinkSystem M.2 32GB SATA 6Gbps Non-Hot Swap SSD	2
7N47A00130	AUUV	ThinkSystem M.2 128GB SATA 6Gbps Non-Hot Swap SSD	2
7SD7A05703	B11V	ThinkSystem M.2 5100 480GB SATA 6Gbps Non-Hot Swap SSD	2
4XB7A17071	B8HS	ThinkSystem M.2 5300 240GB SATA 6Gbps Non-Hot Swap SSD	2
4XB7A17073	B919	ThinkSystem M.2 5300 480GB SATA 6Gbps Non-Hot Swap SSD	2

ORDERING INFORMATION

Product	Description
Server	
Lenovo SR530 Intel 3204/16GB/No disk/Support 4x3.5/530i/2x1G/550W	Lenovo Server SR530 1x3204 6C 1.9GHz, 1x16G, No disk, Support 4x3.5, 530i, 2x1G, 550W, 3Y 7x24
Lenovo SR530 Intel 3204/16GB/No disk/Support 8x2.5/730i w/1GB cache/2x1G/550W	Lenovo Server SR530 1x3204 6C 1.9GHz, 1x16G, No disk, Support 8x2.5, 730i w/1GB cache, 2x1G, 550W, 3Y 7x24
Lenovo SR530 Intel 4208/16GB/No disk/Support 4x3.5/530i/2x1G/550W	Lenovo Server SR530 1x4208 8C 2.1GHz, 1x16G, No disk, Support 4x3.5, 530i, 2x1G, 550W, 3Y 7x24
Lenovo SR530 Intel 4208/16GB/No disk/Support 8x2.5/730i w/1GB cache/2x1G/550W	Lenovo Server SR530 1x4208 8C 2.1GHz, 1x16G, No disk, Support 8x2.5, 730i w/1GB cache, 2x1G, 550W, 3Y 7x24

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