



## Lenovo ThinkSystem SR530 Server (Xeon SP Gen 1) Product Guide

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 Lenovo ThinkSystem SR530.



Figure 1. Lenovo ThinkSystem SR530

### Did you know?

The SR530 server delivers impressive compute power per watt, featuring 80 PLUS Titanium and Platinum redundant power supplies that can deliver 96% (Titanium) or 94% (Platinum) efficiency at 50% load when connected to a 200 - 240 V AC power source.

The SR530 server is designed to meet ASHRAE A4 standards (up to 45 °C [113 °F]) in select configurations, which enable customers to lower energy costs, while still maintaining world-class reliability.

## 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.
- Offers flexible and scalable internal storage in a 1U rack form factor with up to 8x 2.5-inch drives for performance-optimized configurations or up to 4x 3.5-inch drives for capacity-optimized configurations, providing a wide selection of SAS/SATA HDDs/SSDs.
- 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.

## Components and connectors

The following figure shows the front of the SR530 server with four 3.5-inch drive bays.

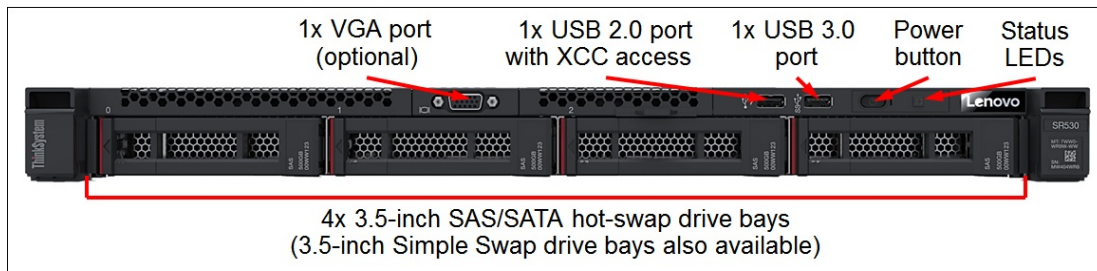


Figure 2. Front view of the SR530: 4x 3.5-inch drive bays

The following figure shows the front of the SR530 server with eight 2.5-inch drive bays.

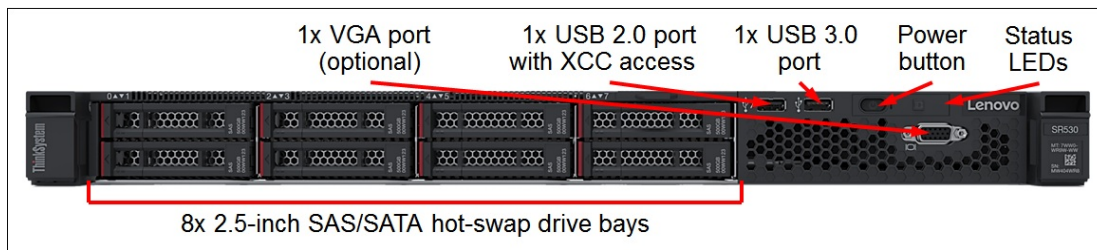


Figure 3. Front view of the SR530: 8x 2.5-inch drive bays

The following figure shows the rear of the SR530 server with three PCIe low profile slots.

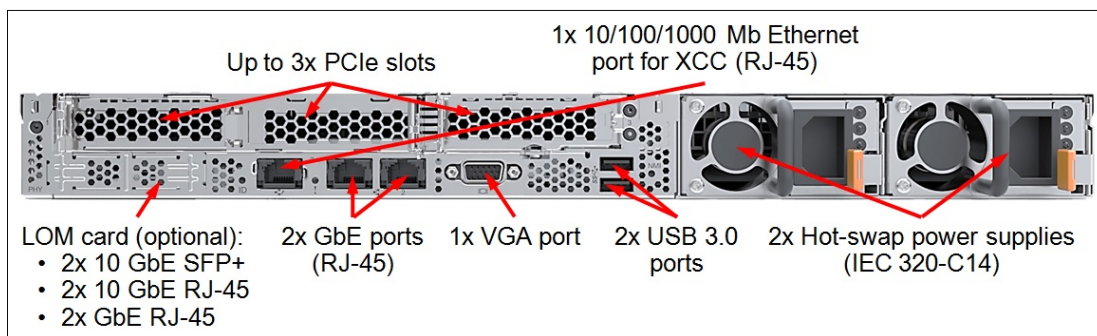


Figure 4. Rear view of the SR530

The following figure shows the locations of key components inside the SR530 server.

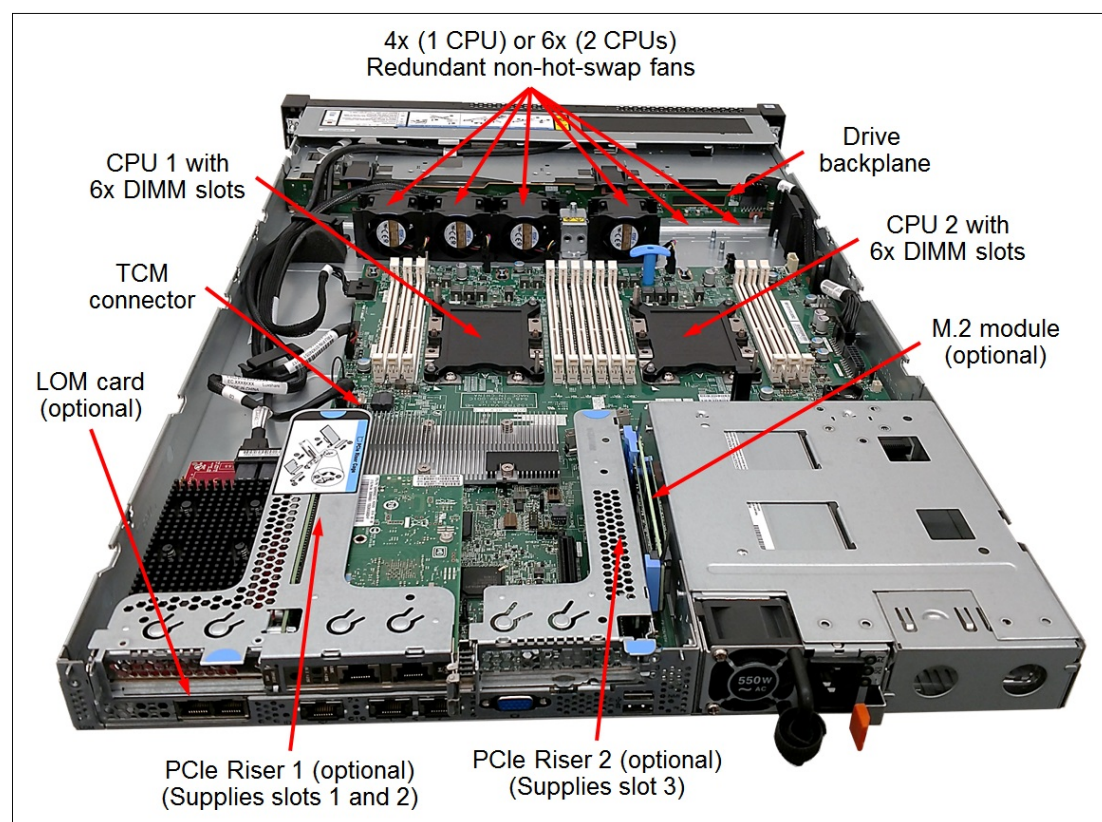


Figure 5. Internal view of the SR530

## System specifications

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

Table 1. SR530 system specifications

Attribute	Specification
Form factor	1U rack-mount.
Processor	Up to two Intel Xeon Bronze, Silver, Gold, or Platinum processors: <ul style="list-style-type: none"> <li>Up to 20 cores (2.0 GHz core speeds)</li> <li>Up to 3.6 GHz core speeds (4 cores)</li> <li>Two UPI links up to 10.4 GT/s each</li> <li>Up to 27.5 MB cache</li> <li>Up to 2666 MHz memory speed</li> </ul>
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"> <li>With RDIMMs: Up to 384 GB with 12x 32 GB RDIMMs and two processors.</li> <li>With LRDIMMs: Up to 768 GB with 12x 64 GB LRDIMMs and two processors.</li> </ul>
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.

Attribute	Specification
Drive bays	<ul style="list-style-type: none"> <li>4 LFF SATA Simple Swap drive bays</li> <li>4 LFF SAS/SATA hot-swap drive bays</li> <li>8 SFF SAS/SATA hot-swap drive bays</li> </ul>
Drive types	<p>3.5-inch non-hot-swap drives:</p> <ul style="list-style-type: none"> <li>6 Gbps NL SATA HDDs up to 10 TB</li> <li>6 Gbps SATA SSDs up to 480 GB (2.5" SSD in a 3.5" tray)</li> </ul> <p>3.5-inch hot-swap drives:</p> <ul style="list-style-type: none"> <li>12 Gbps SAS HDDs up to 900 GB (2.5" HDD in a 3.5" tray)</li> <li>12 Gbps NL SAS HDDs up to 14 TB</li> <li>12 Gbps NL SAS HDD SEDs up to 4 TB</li> <li>12 Gbps SAS SSDs up to 7.68 TB</li> <li>6 Gbps NL SATA HDDs up to 14 TB</li> <li>6 Gbps SATA SSDs up to 7.68 TB (2.5" SSD in a 3.5" tray)</li> </ul> <p>2.5-inch hot-swap drives:</p> <ul style="list-style-type: none"> <li>12 Gbps SAS HDDs up to 2.4 TB</li> <li>12 Gbps Nearline (NL) SAS HDDs up to 2 TB</li> <li>12 Gbps SAS HDD SEDs up to 600 GB</li> <li>12 Gbps SAS SSDs up to 7.68 TB</li> <li>6 Gbps NL SATA HDDs up to 2 TB</li> <li>6 Gbps SATA SSDs up to 7.68 TB</li> </ul> <p>Internal M.2 SSDs:</p> <ul style="list-style-type: none"> <li>6 Gbps SATA up to 480 GB</li> </ul> <p>Intermix of SAS/SATA HDDs/SSDs is supported within a system, but not within a RAID array.</p>
Internal storage capacity	<ul style="list-style-type: none"> <li>3.5-inch models: Up to 56 TB with 4x 14 TB 3.5" SAS/SATA HDDs</li> <li>2.5-inch models: Up to 61.4 TB with 8x 7.68 TB 2.5" SAS/SATA SSDs</li> </ul>
Storage controller	<p>6 Gbps SATA</p> <ul style="list-style-type: none"> <li>Non-RAID: Onboard SATA AHCI</li> <li>RAID 0/1/10/5: Onboard SATA RAID (Intel RSTe)</li> </ul> <p>12 Gbps SAS/6 Gbps SATA RAID</p> <ul style="list-style-type: none"> <li>RAID 0/1/10/5/50: <ul style="list-style-type: none"> <li>RAID 530-8i</li> <li>RAID 730-8i 1GB Cache</li> </ul> </li> <li>RAID 0/1/10/5/50/6/60: <ul style="list-style-type: none"> <li>RAID 730-8i 2GB Flash</li> <li>RAID 930-8i 2GB Flash</li> <li>RAID 930-16i 4GB or 8GB Flash</li> </ul> </li> </ul> <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 (See <a href="#">Optical drives</a> ).
Network interfaces	<ul style="list-style-type: none"> <li>2x Integrated 1 GbE RJ-45 ports (no 10/100 Mb support)</li> <li>Onboard LOM slot for up to two additional 1/10 Gb Ethernet ports: <ul style="list-style-type: none"> <li>2x 1 GbE RJ-45 ports (no 10/100 Mb support)</li> <li>2x 10 GbE RJ-45 ports (no 10/100 Mb support)</li> <li>2x 10 GbE SFP+ ports (no 10/100 Mb support)</li> </ul> </li> <li>Optional Mezzanine LOM (ML2) slot for dual-port 10 GbE cards with SFP+ or RJ-45 connectors.</li> <li>1x RJ-45 10/100/1000 Mb Ethernet systems management port.</li> </ul>
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"> <li>Slot 1: PCIe 3.0 x8; low profile</li> <li>Slot 2: PCIe 3.0 x16 or ML2 x8; low profile or full-height, half-length</li> <li>Slot 3: PCIe 3.0 x8 or x16; low profile</li> </ul> <p>PCIe x16 slot 3 requires the second processor to be installed.</p>

Attribute	Specification
Ports	<ul style="list-style-type: none"> <li>Front: <ul style="list-style-type: none"> <li>1x USB 2.0 port with XClarity Controller access.</li> <li>1x USB 3.0 port.</li> <li>1x VGA port (optional).</li> </ul> </li> <li>Rear: 2x USB 3.0 ports and 1x VGA port. Optional 1x DB-9 serial port.</li> </ul>
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 2012 R2, 2016, and 2019; Red Hat Enterprise Linux 6 (x64), 7, and 8; SUSE Linux Enterprise Server 11 (x64), 12, and 15; VMware vSphere (ESXi) 6.0, 6.5, and 6.7.
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	Height: 43 mm (1.7 in), width: 434 mm (17.1 in), depth: 715 mm (28.1 in)
Weight	Minimum configuration: 10.2 kg (22.5 lb), maximum: 16 kg (35.3 lb)

## Models

ThinkSystem SR530 server models can be configured by using the Lenovo Data Center Solution Configurator (DCSC):

<http://dcsc.lenovo.com>

ThinkSystem SR530 server models are country-specific; that is, each country may define their own server models, and not all server models are available in every country. For a complete list of the SR530 models, contact a Lenovo or Lenovo Business Partner representative in your country. Information on the SR530 models is also available on the PSREF website:

[http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem\\_SR530](http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR530)

Configure-to-order (CTO) models can also be created for factory-integrated server customization. The following table lists the base CTO models of the ThinkSystem SR530 server.

Table 2. Base CTO models

Description	Machine Type/Model
ThinkSystem SR530 - 3yr Warranty	7X08CTO1WW
ThinkSystem SR530 - 1yr Warranty	7X07CTO1WW

The following table lists the base chassis for CTO models of the SR530 server.

Table 3. Base chassis for CTO models

Description	Feature code
ThinkSystem SR530 3.5" Chassis with 4 Bays	AV0T
ThinkSystem SR530 2.5" Chassis with 8 Bays	AV0S

All models of the SR530 server are shipped with the following items:

- *Rack Installation Guide*
- *Electronic Publications Flyer*

**Models table conventions:** The model tables shown in this section use the following conventions:

- XClarity Controller: "S" = Standard, "A" = Advanced, "E" = Enterprise.
- Front VGA port: "Y" = Included; "N" = Not included, optional.
- Tool-less Rail Kit: "Y" = Included; "N" = Not included, optional.
- Cable Management Arm (CMA): "Y" = Included; "N" = Not included, optional.
- Power cord:
  - "C2" = 2.8 m country-specific line cord.
  - "R1" = 1.5 m C13-C14 rack power cable.
  - "R2" = 2.8 m C13-C14 rack power cable.
  - "R4" = 4.3 m C13-C14 rack power cable.
  - "N" = Not included; see [Power supplies and cables](#) for the ordering information.

The following tables list the models of the SR530 server for the following regions:

- [North America](#)
- [United States \(Buy Online\)](#)
- [Brazil](#)
- [Latin America \(except Brazil\)](#)
- [Europe, Middle East, and Africa \(EMEA\)](#)
- [India](#)
- [Hong Kong, Taiwan, Korea](#)
- [Japan](#)
- [Association of Southeast Asian Nations \(ASEAN\)](#)
- [Australia and New Zealand](#)

Table 4. SR530 server models: North America

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - North America													
7X08A056NA	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05WNA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05TNA	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05XNA	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A057NA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XCiarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
7X08A055NA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05MNA	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05KNA	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05ENA	1x 5115 10C 85W 2.4GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	N	Y	N	R2
7X08A05SNA	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A058NA	1x 5118 12C 105W 2.3GHz	1x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A05RNA	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A05PNA	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A052NA	1x 6138 20C 125W 2.0GHz	1x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
TopSeller models - North America													
7X08A04FNA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A03SNA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A045NA	1x 4116 12C 85W 2.1GHz	1x 32GB (2Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 5. SR530 server models: Brazil

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XCiarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - Brazil													
7X08A043BR	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04LBR	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04JBR	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A042BR	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04QBR	1x 5118 12C 105W 2.3GHz	1x 32GB (2Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A044BR	1x 5118 12C 105W 2.3GHz	1x 32GB (2Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
7X08A040BR	1x 5118 12C 105W 2.3GHz	1x 64GB (4Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04HBR	1x 5118 12C 105W 2.3GHz	1x 64GB (4Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A048BR	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04RBR	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A03WBR	1x 5120 14C 105W 2.2GHz	1x 32GB (2Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A03YBR	1x 5120 14C 105W 2.2GHz	1x 32GB (2Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A049BR	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04PBR	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04ABR	1x 5120 14C 105W 2.2GHz	1x 64GB (4Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A047BR	1x 5120 14C 105W 2.2GHz	1x 64GB (4Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A046BR	1x 6130 16C 125W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04DBR	1x 6130 16C 125W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A03XBR	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04NBR	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04BBR	1x 6130 16C 125W 2.1GHz	1x 32GB (2Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04CBR	1x 6130 16C 125W 2.1GHz	1x 32GB (2Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04KBR	1x 6130 16C 125W 2.1GHz	1x 64GB (4Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A04EBR	1x 6130 16C 125W 2.1GHz	1x 64GB (4Rx4)	1x RAID 530-8i	8 / 8 HS SFF	1x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
TopSeller models - Brazil													
7X08100HBR	1x 3106 8C 85W 1.7GHz	1x 16GB (2Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	E	Y	Y	N	C2
7X08100PBR	1x 3106 8C 85W 1.7GHz	1x 32GB (2Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	C2

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 6. SR530 server models: Latin America (except Brazil)

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models (NAS workload-optimized with Windows Storage Server 2016 Std preloaded) - Latin America (except Brazil)													
7X08A06BLA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x M.2 RAID 1x RAID 930-8i	4 / 4 HS LFF	2x 128GB M.2 SSD 4x 2TB SAS HDD	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
7X08A06ALA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x M.2 RAID 1x RAID 930-8i	4 / 4 HS LFF	2x 128GB M.2 SSD 4x 4TB SAS HDD	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
Relationship models (NAS workload-optimized with Windows Storage Server 2016 Std not preloaded) - Latin America (exc. Brazil)													
7X08A06CLA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	4x 2TB SAS HDD	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
7X08A069LA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	4x 4TB SAS HDD	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
Relationship models (NAS workload-optimized without software stack) - Latin America (except Brazil)													
7X08100CLA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	4x 2TB HDD	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R1
7X08100DLA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	4x 4TB HDD	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R1
Relationship models - Latin America (except Brazil)													
7X08A09PLA	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i 2GB M.2 (no RAID)	8 / 8 HS SFF 1x M.2	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2†
7X08A05DLA	1x 5115 10C 85W 2.4GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05NLA	1x 5115 10C 85W 2.4GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A017LA	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A00MLA	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A019LA	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A00KLA	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A01CLA	1x 6130 16C 125W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
7X08A00HLA	1x 6130 16C 125W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R4
TopSeller models - Latin America (Chile only)													
7X081000LA	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	2x 550W	E	Y	Y	N	R2
7X081001LA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
7X081002LA	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
TopSeller models - Latin America (except Brazil and Chile)													
7X081009LA	1x 3106 8C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
7X08100ALA	1x 3106 8C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08100BLA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	2x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	S	Y	Y	N	R2
TopSeller models - Latin America (Colombia only)													
7X08A066LA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	E	Y	Y	N	R2
TopSeller models - Latin America (except Brazil)													
7X08A051LA	1x 3104 6C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A054LA	1x 3104 6C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05YLA	1x 3106 8C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05FLA	1x 3106 8C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05GLA	1x 4108 8C 85W 1.8GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05HLA	1x 4108 8C 85W 1.8GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A053LA	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	2x 600GB 15K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R1
7X08A05ALA	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	2x 2TB SAS HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R4
7X08A059LA	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	2x 2TB SAS HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R1
7X08A05VLA	1x 4110 8C 85W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05CLA	1x 4110 8C 85W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05QLA	1x 4110 8C 85W 2.1GHz	2x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	2x 2TB SAS HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R1
7X08A05JLA	1x 4114 10C 85W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05ULA	1x 4114 10C 85W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R4
7X08A05LLA	1x 4114 10C 85W 2.2GHz	2x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	3x 600GB 15K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R1

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

† The model ships with the 2.0 m power cords.

Table 7. SR530 server models: EMEA

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - EMEA													
7X08A01TEA	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A01WEA	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A02AEA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A00JEA	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
TopSeller models - EMEA													
7X08A022EA	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x SATA RAID	4 / 4 SS LFF	Open bay	Open slot	None	1x 550W	S	Y	Y	N	R2
7X08A028EA	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A025EA	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A01VEA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A029EA	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A04GEA	1x 4110 8C 85W 2.1GHz	4x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	3x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	E	Y	Y	N	R2
7X08A024EA	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A01XEA	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A009EA	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 8. SR530 server models: India

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - India													
7X08A007SG	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x SATA RAID	4 / 4 SS LFF	Open bay	2x 1Gb RJ-45	None	1x 550W	S	Y	Y	N	C2
7X08A004SG	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A00ASG	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A008SG	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A00CSG	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A00FSG	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A00BSG	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A00GSG	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	C2
7X08A013SG	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 750W Platinum	S	Y	Y	N	C2
7X08A011SG	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 750W Platinum	S	Y	Y	N	C2
7X08A015SG	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 750W Platinum	S	Y	Y	N	C2
7X08A01BSG	1x 6138 20C 125W 2.0GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x ML2 x8	1x 750W Platinum	S	Y	Y	N	C2

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 9. SR530 server models: Hong Kong, Taiwan, Korea

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - Hong Kong, Taiwan, Korea													
7X08A02ZCN	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03BCN	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A031CN	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A02TCN	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03KCN	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A039CN	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03GCN	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03PCN	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03CCN	1x 4112 4C 85W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03DCN	1x 4112 4C 85W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A036CN	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A02UCN	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A02WCN	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A02YCN	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A02VCN	1x 5115 10C 85W 2.4GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A03ECN	1x 5115 10C 85W 2.4GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A00ZCN	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A01LCN	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A00WCN	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A01GCN	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A00UCN	1x 5122 4C 105W 3.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A014CN	1x 5122 4C 105W 3.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A00TCN	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A016CN	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
7X08A00SCN	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N
7X08A01DCN	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	N

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 10. SR530 server models: Japan

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - Japan													
7X08A064JP	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A063JP	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A04XJP	1x 5122 4C 105W 3.6GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A065JP	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	N	Y	N	N
7X08A04WJP	1x 6138 20C 125W 2.0GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
TopSeller models - Japan													
7X08A04ZJP	1x 3104 6C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A04VJP	1x 3104 6C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A050JP	1x 3106 8C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A04UJP	1x 4110 8C 85W 2.1GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A04YJP	1x 4112 4C 85W 2.6GHz	1x 8GB (1Rx8)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N
7X08A061JP	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	A	N	Y	N	N

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 11. SR530 server models: ASEAN

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - ASEAN													
7X08A02LSG	1x 3104 6C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02MSG	1x 3106 8C 85W 1.7GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02JSG	1x 4110 8C 85W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02QSG	1x 4112 4C 85W 2.6GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02KSG	1x 4112 4C 85W 2.6GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02NSG	1x 4114 10C 85W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02PSG	1x 4116 12C 85W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	N	Y	N	R2
7X08A02CSG	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A02DSG	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A02HSG	1x 5122 4C 105W 3.6GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A02ESG	1x 5122 4C 105W 3.6GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A02FSG	1x 6130 16C 125W 2.1GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A02GSG	1x 6138 20C 125W 2.0GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	2x 1Gb RJ-45	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

Table 12. SR530 server models: Australia and New Zealand

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
Relationship models - Australia and New Zealand													
7X081006AU	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x SATA RAID	4 / 4 SS LFF	Open bay	Open slot	None	1x 750W Platinum	E	Y	Y	Y	R2
7X08A03NAU	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X081003AU	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	Y	R2
7X081007AU	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x SATA RAID	4 / 4 SS LFF	Open bay	Open slot	None	1x 750W Platinum	E	Y	Y	Y	R2
7X08A037AU	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X081004AU	1x 3106 8C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	Y	R2
7X08A03HAU	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A03FAU	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X081008AU	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x SATA AHCI	4 / 4 SS LFF	Open bay	Open slot	None	1x 750W Platinum	E	Y	Y	Y	R2
7X08A02SAU	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X081005AU	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	Y	R2
7X08A02XAU	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A033AU	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A03LAU	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	N	Y	N	R2
7X08A01NAU	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x SATA RAID	4 / 4 SS LFF	Open bay	Open slot	None	1x 550W	S	Y	Y	N	R2
7X08A01JAU	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	R2
7X08A01PAU	1x 5118 12C 105W 2.3GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	R2
7X08A01KAU	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	R2
7X08A01EAU	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	R2
7X08A04MAU	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
7X08A03VAU	1x 5118 12C 105W 2.3GHz	1x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
7X08A00DAU	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	R2
7X08A006AU	1x 5120 14C 105W 2.2GHz	1x 8GB (1Rx8)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 550W	S	Y	Y	N	R2
7X08A00YAU	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2

Model number	Intel Xeon processor* (2 max)	Memory DIMM (12 max)	Storage controller	Drive bays (std / max)	Drives	Eth. LOM	I/O slots (3 max)^	Power supply (2 max)	XClarity Controller	Front VGA port	Tool-less Rail Kit	CMA	Power cord
7X08A041AU	1x 5120 14C 105W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
7X08A01RAU	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x ML2 x8	1x 750W Platinum	S	Y	Y	N	R2
7X08A010AU	1x 6126 12C 125W 2.6GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
7X08A01SAU	1x 6130 16C 125W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
7X08A01QAU	1x 6138 20C 125W 2.0GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
7X08A03UUAU	1x 6138 20C 125W 2.0GHz	1x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2
TopSeller models - Australia and New Zealand													
7X08A030AU	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x SATA RAID	4 / 4 SS LFF	Open bay	Open slot	None	1x 550W	S	Y	Y	N	R2
7X08A03MAU	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 550W	S	Y	Y	N	R2
7X08A03QAU	1x 3104 6C 85W 1.7GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A03AAU	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 530-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A038AU	1x 4108 8C 85W 1.8GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A032AU	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	4 / 4 HS LFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A02RAU	1x 4110 8C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A034AU	1x 4110 8C 85W 2.1GHz	2x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	2x 600GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R2
7X08A03RAU	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A035AU	1x 4114 10C 85W 2.2GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	2x 300GB 10K HDD	Open slot	1x PCIe x8 1x PCIe x16 LP	2x 750W Platinum	A	Y	Y	N	R2
7X08A03JAU	1x 4116 12C 85W 2.1GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	A	Y	Y	N	R2
7X08A03TAU	1x 5118 12C 105W 2.3GHz	1x 16GB (1Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	E	Y	Y	N	R2
7X08A03ZAU	1x 6130 16C 125W 2.1GHz	1x 32GB (2Rx4)	1x RAID 930-8i	8 / 8 HS SFF	Open bay	Open slot	1x PCIe x8 1x PCIe x16 LP	1x 750W Platinum	S	Y	Y	N	R2

\* Processor details: Processor quantity and model, cores, thermal design power (TDP), and core speed.

^ The server supports up to three I/O slots on the riser cards. An internal storage controller occupies the PCIe slot 1. The onboard SATA RAID controller does not consume a PCIe slot.

## 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 13. 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
<b>Intel Xeon Bronze processors</b>											
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
<b>Intel Xeon Silver processors</b>											
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
<b>Intel Xeon Gold processors</b>											
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	105W	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
<b>Intel Xeon Platinum processors</b>											
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 14. 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 Option Kit	4XG7A07187	AWE6
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 15. Memory options

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:

1. 4 LFF SATA Simple Swap drive bays
2. 4 LFF SAS/SATA hot-swap drive bays
3. 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.

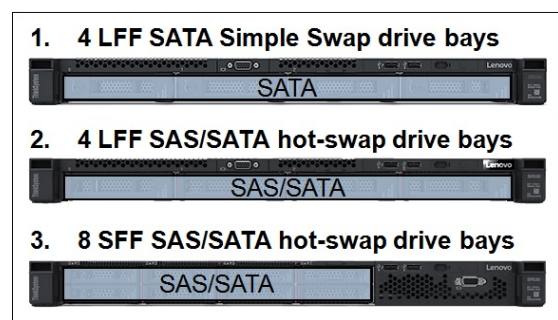


Figure 6. Internal drive bay configurations

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

Table 16. Internal storage options

Description	Part number	Feature code	Maximum quantity
Factory-installed backplane kits			
ThinkSystem SR530/SR630 4x3.5" SATA/SAS Backplane	None*	AUW8	1
ThinkSystem SR530/SR630 8x2.5" SATA/SAS Backplane	None*	AUWB	1
Backplane kit field upgrade options			
ThinkSystem SR530/SR630 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.

### M.2 Enablement Kit configuration notes:

- The M.2 Enablement Kit (7Y37A01092) supports one M.2 SATA SSD which is connected to the SATA port on the Intel Platform Controller Hub (PCH).
- The M.2 with Mirroring Enablement Kit (7Y37A01093) is connected to the Intel PCH via the PCIe link, and the kit supports two M.2 SATA SSDs that can be configured in a RAID-1 or RAID-0 drive group, or they can operate as two separate drives.

The following tables list supported internal storage configurations with the SAS/SATA backplanes.

Table 17. Internal storage configurations

Drive bay configuration	Backplane kit type and quantity		Storage controller type and quantity*
	4x 3.5" SATA/SAS	8x 2.5" SATA/SAS	
4x 3.5" chassis (Feature code AV0T)			
4x 3.5-in. SATA Simple Swap	0	0	Onboard AHCI (non-RAID) / Intel RSTe (RAID) (4)
4x 3.5-in. SAS/SATA hot-swap	1	0	1x RAID 530-8i/730-8i 1GB (4)
			1x RAID 730-8i 2GB/930-8i (4)
			1x 430-8i HBA (4)
8x 2.5" chassis (Feature code AV0S)			
8x 2.5-in. SAS/SATA hot-swap	0	1	1x RAID 530-8i/730-8i 1GB (8)
			1x RAID 730-8i 2GB/930-8i/930-16i (8)
			1x 430-8i HBA (8)

\* The number in brackets (x) specifies the quantity of drive bays connected to each of the controllers.

**Configuration note:** Models without any drive bays are based on the 8x 2.5" chassis (feature code AV0S), and they support adding drive bays by using the 2.5" 8-drive backplane kit (7XH7A05896).

## Controllers for internal storage

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

Table 18. 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 Adapter	4Y37A09722	B4RQ	1	1
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 19. 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 interface	PCH	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 3.0 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	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 (Included)	Flash backup (Included)	Flash backup (Included)	None
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.

For more information, see the list of Product Guides in the following categories:

- RAID adapters  
<http://lenovopress.com/servers/options/raid#rt=product-guide>
- Host bus adapters  
<http://lenovopress.com/servers/options/hba#rt=product-guide>

## Drives for internal storage

The following tables list drive options for the SR530 server.

Table 20. Drive options for internal storage: 3.5-inch non-hot-swap drives

Description	Part number	Feature code	Maximum quantity
3.5-inch non-hot-swap HDDs - 6 Gbps SATA			
ThinkSystem 1TB 7.2K 6Gbps SATA 3.5" Simple Swap 512n HDD	7XB7A00055	AUZZ	4
ThinkSystem 2TB 7.2K 6Gbps SATA 3.5" Simple Swap 512n HDD	7XB7A00056	AUZZ	4
ThinkSystem 4TB 7.2K 6Gbps SATA 3.5" Simple Swap 512n HDD	7XB7A00057	AUZZ	4
ThinkSystem 6TB 7.2K 6Gbps SATA 3.5" Simple Swap 512e HDD	7XB7A00058	AXC7	4
ThinkSystem 8TB 7.2K 6Gbps SATA 3.5" Simple Swap 512e HDD	7XB7A00059	AXC6	4
ThinkSystem 10TB 7.2K 6Gbps SATA 3.5" Simple Swap 512e HDD	7XB7A00060	AXC8	4
3.5-inch non-hot-swap SSDs - S4500 Entry 6 Gbps SATA			
ThinkSystem 3.5" Intel S4500 240GB Entry SATA 6Gb Simple Swap SSD	4XB7A08491	B2XM	4
ThinkSystem 3.5" Intel S4500 480GB Entry SATA 6Gb Simple Swap SSD	4XB7A08492	B2XN	4

Table 21. Drive options for internal storage: 3.5-inch hot-swap drives

Description	Part number	Feature code	Maximum quantity
3.5-inch hot-swap HDDs - 12 Gbps SAS			
ThinkSystem 3.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD	7XB7A00063	B1JJ	4
ThinkSystem 3.5" 300GB 15K SAS 12Gb Hot Swap 512n HDD	7XB7A00038	AUU2	4
ThinkSystem 3.5" 600GB 15K SAS 12Gb Hot Swap 512n HDD	7XB7A00039	AUU3	4
ThinkSystem 3.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD	7XB7A00040	AUUC	4
3.5-inch hot-swap HDDs - 12 Gbps NL SAS			
ThinkSystem 3.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD	7XB7A00041	AUU4	4
ThinkSystem 3.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	7XB7A00042	AUU5	4
ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD	7XB7A00043	AUU6	4
ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD	7XB7A00044	AUU7	4
ThinkSystem 3.5" 8TB 7.2K SAS 12Gb Hot Swap 512e HDD	7XB7A00045	B0YR	4
ThinkSystem 3.5" 10TB 7.2K SAS 12Gb Hot Swap 512e HDD	7XB7A00046	AUUG	4
ThinkSystem 3.5" 12TB 7.2K SAS 12Gb Hot Swap 512e HDD	7XB7A00067	B117	4
ThinkSystem 3.5" 14TB 7.2K SAS 12Gb Hot Swap 512e HDD	4XB7A13906	B496	4
3.5-inch hot-swap HDDs - 6 Gbps NL SATA			
ThinkSystem 3.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	7XB7A00049	AUUF	4
ThinkSystem 3.5" 2TB 7.2K SATA 6Gb Hot Swap 512n HDD	7XB7A00050	AUUD	4
ThinkSystem 3.5" 4TB 7.2K SATA 6Gb Hot Swap 512n HDD	7XB7A00051	AUU8	4
ThinkSystem 3.5" 6TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00052	AUUA	4
ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00053	AUU9	4
ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00054	AUUB	4
ThinkSystem 3.5" 12TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00068	B118	4
ThinkSystem 3.5" 14TB 7.2K SATA 6Gb Hot Swap 512e HDD	4XB7A13907	B497	4
3.5-inch hot-swap HDD SEDs - 12 Gbps NL SAS			
ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD FIPS	7XB7A00047	AUUH	4

Description	Part number	Feature code	Maximum quantity
3.5-inch hot-swap SSDs - PM1635a Mainstream 12 Gbps SAS			
ThinkSystem 3.5" PM1635a 800GB Mainstream SAS 12Gb Hot Swap SSD	4XB7A10188	B2XD	4
ThinkSystem 3.5" PM1635a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	4XB7A10187	B2XE	4
3.5-inch hot-swap SSDs - PM1645 Mainstream 12 Gbps SAS			
ThinkSystem 3.5" PM1645 800GB Mainstream SAS 12Gb Hot Swap SSD	4XB7A13657	B4A3	4
ThinkSystem 3.5" PM1645 1.6TB Mainstream SAS 12Gb Hot Swap SSD	4XB7A13658	B4A4	4
3.5-inch hot-swap SSDs - 5100 Mainstream 6 Gbps SATA			
ThinkSystem 3.5" 5100 480GB Mainstream SATA 6Gb Hot Swap SSD	7SD7A05759	B112	4
ThinkSystem 3.5" 5100 3.84TB Mainstream SATA 6Gb Hot Swap SSD	7SD7A05756	B115	4
3.5-inch hot-swap SSDs - 5200 Mainstream 6 Gbps SATA			
ThinkSystem 3.5" 5200 240GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10242	B48D	4
ThinkSystem 3.5" 5200 480GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10243	B48E	4
ThinkSystem 3.5" 5200 960GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10244	B48F	4
ThinkSystem 3.5" 5200 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10245	B48G	4
ThinkSystem 3.5" 5200 3.84TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10246	B48H	4
3.5-inch hot-swap SSDs - S4600 Mainstream 6 Gbps SATA			
ThinkSystem 3.5" Intel S4600 480GB Mainstream SATA 6Gb Hot Swap SSD	7SD7A05717	B0ZU	4
3.5-inch hot-swap SSDs - S4610 Mainstream 6 Gbps SATA			
ThinkSystem 3.5" Intel S4610 240GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13639	B49R	4
ThinkSystem 3.5" Intel S4610 480GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13640	B49S	4
ThinkSystem 3.5" Intel S4610 960GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13641	B49T	4
ThinkSystem 3.5" Intel S4610 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13642	B49U	4
ThinkSystem 3.5" Intel S4610 3.84TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13643	B49V	4
3.5-inch hot-swap SSDs - PM1643 Capacity 12 Gbps SAS			
ThinkSystem 3.5" PM1643 3.84TB Capacity SAS 12Gb Hot Swap SSD	4XB7A13649	B4A8	4
3.5-inch hot-swap SSDs - 5100 Entry 6 Gbps SATA			
ThinkSystem 3.5" 5100 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A08509	B10V	4
3.5-inch hot-swap SSDs - 5200 Entry 6 Gbps SATA			
ThinkSystem 3.5" 5200 480GB Entry SATA 6Gb Hot Swap SSD	4XB7A10158	B2X7	4
ThinkSystem 3.5" 5200 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A10159	B2X8	4
ThinkSystem 3.5" 5200 1.92TB Entry SATA 6Gb Hot Swap SSD	4XB7A10160	B2X9	4
ThinkSystem 3.5" 5200 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A10161	B2XA	4
ThinkSystem 3.5" 5200 7.68TB Entry SATA 6Gb Hot Swap SSD	4XB7A10162	B2XB	4
3.5-inch hot-swap SSDs - PM863a Entry 6 Gbps SATA			
ThinkSystem 3.5" PM863a 240GB Entry SATA 6Gb Hot Swap SSD	7N47A00115	AUUS	4
3.5-inch hot-swap SSDs - PM883 Entry 6 Gbps SATA			
ThinkSystem 3.5" PM883 240GB Entry SATA 6Gb Hot Swap SSD	4XB7A17176	B6TM	4
ThinkSystem 3.5" PM883 480GB Entry SATA 6Gb Hot Swap SSD	4XB7A17177	B6TN	4
ThinkSystem 3.5" PM883 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A17178	B6TP	4
ThinkSystem 3.5" PM883 1.92TB Entry SATA 6Gb Hot Swap SSD	4XB7A17179	B6JY	4
ThinkSystem 3.5" PM883 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A17180	B6JZ	4
3.5-inch hot-swap SSDs - S4500 Entry 6 Gbps SATA			
ThinkSystem 3.5" Intel S4500 240GB Entry SATA 6Gb Hot Swap SSD	7SD7A05737	B0Z3	4
ThinkSystem 3.5" Intel S4500 480GB Entry SATA 6Gb Hot Swap SSD	7SD7A05736	B0Z4	4

Description	Part number	Feature code	Maximum quantity
ThinkSystem 3.5" Intel S4500 960GB Entry SATA 6Gb Hot Swap SSD	7SD7A05735	B0Z5	4
ThinkSystem 3.5" Intel S4500 1.92TB Entry SATA 6Gb Hot Swap SSD	7SD7A05734	B0Z6	4
3.5-inch hot-swap SSDs - S4510 Entry 6 Gbps SATA			
ThinkSystem 3.5" Intel S4510 240GB Entry SATA 6Gb Hot Swap SSD	4XB7A13625	B49D	4
ThinkSystem 3.5" Intel S4510 480GB Entry SATA 6Gb Hot Swap SSD	4XB7A13626	B49E	4
ThinkSystem 3.5" Intel S4510 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A13627	B49F	4
ThinkSystem 3.5" Intel S4510 1.92TB Entry SATA 6Gb Hot Swap SSD	4XB7A13628	B49G	4
ThinkSystem 3.5" Intel S4510 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A13629	B49H	4

Table 22. Drive options for internal storage: 2.5-inch hot-swap drives

Description	Part number	Feature code	Maximum quantity
2.5-inch hot-swap HDDs - 12 Gbps SAS			
ThinkSystem 2.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD	7XB7A00024	AULY	8
ThinkSystem 2.5" 300GB 15K SAS 12Gb Hot Swap 512n HDD	7XB7A00021	AULV	8
ThinkSystem 2.5" 600GB 10K SAS 12Gb Hot Swap 512n HDD	7XB7A00025	AULZ	8
ThinkSystem 2.5" 600GB 15K SAS 12Gb Hot Swap 512n HDD	7XB7A00022	AULW	8
ThinkSystem 2.5" 900GB 10K SAS 12Gb Hot Swap 512n HDD	7XB7A00026	AUM0	8
ThinkSystem 2.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD	7XB7A00023	AULX	8
ThinkSystem 2.5" 1.2TB 10K SAS 12Gb Hot Swap 512n HDD	7XB7A00027	AUM1	8
ThinkSystem 2.5" 1.8TB 10K SAS 12Gb Hot Swap 512e HDD	7XB7A00028	AUM2	8
ThinkSystem 2.5" 2.4TB 10K SAS 12Gb Hot Swap 512e HDD	7XB7A00069	B0YS	8
2.5-inch hot-swap HDDs - 12 Gbps NL SAS			
ThinkSystem 2.5" 1TB 7.2K SAS 12Gb Hot Swap 512n HDD	7XB7A00034	AUM6	8
ThinkSystem 2.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	7XB7A00035	AUM7	8
2.5-inch hot-swap HDDs - 6 Gbps NL SATA			
ThinkSystem 2.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	7XB7A00036	AUUE	8
ThinkSystem 2.5" 2TB 7.2K SATA 6Gb Hot Swap 512e HDD	7XB7A00037	AUUJ	8
2.5-inch hot-swap HDD SEDs - 12 Gbps SAS			
ThinkSystem 2.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD SED	7XB7A00030	AUM4	8
ThinkSystem 2.5" 600GB 10K SAS 12Gb Hot Swap 512n HDD SED	7XB7A00031	AUM5	8
2.5-inch hot-swap SSDs - PM1635a Mainstream 12 Gbps SAS			
ThinkSystem 2.5" PM1635a 400GB Mainstream SAS 12Gb Hot Swap SSD	7N47A00117	AUMC	8
ThinkSystem 2.5" PM1635a 800GB Mainstream SAS 12Gb Hot Swap SSD	7N47A00118	AUMD	8
ThinkSystem 2.5" PM1635a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	7N47A00119	AVRG	8
2.5-inch hot-swap SSDs - PM1645 Mainstream 12 Gbps SAS			
ThinkSystem 2.5" PM1645 800GB Mainstream SAS 12Gb Hot Swap SSD	4XB7A13653	B4A0	8
ThinkSystem 2.5" PM1645 1.6TB Mainstream SAS 12Gb Hot Swap SSD	4XB7A13654	B4A1	8
ThinkSystem 2.5" PM1645 3.2TB Mainstream SAS 12Gb Hot Swap SSD	4XB7A13655	B4A2	8
2.5-inch hot-swap SSDs - 5100 Mainstream 6 Gbps SATA			
ThinkSystem 2.5" 5100 480GB Mainstream SATA 6Gb Hot Swap SSD	7SD7A05764	B10X	8
ThinkSystem 2.5" 5100 3.84TB Mainstream SATA 6Gb Hot Swap SSD	7SD7A05761	B110	8
2.5-inch hot-swap SSDs - 5200 Mainstream 6 Gbps SATA			
ThinkSystem 2.5" 5200 240GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10237	B488	8

Description	Part number	Feature code	Maximum quantity
ThinkSystem 2.5" 5200 480GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10238	B489	8
ThinkSystem 2.5" 5200 960GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10239	B48A	8
ThinkSystem 2.5" 5200 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10240	B48B	8
ThinkSystem 2.5" 5200 3.84TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A10241	B48C	8
2.5-inch hot-swap SSDs - S4600 Mainstream 6 Gbps SATA			
ThinkSystem 2.5" Intel S4600 480GB Mainstream SATA 6Gb Hot Swap SSD	7SD7A05722	B0ZQ	8
2.5-inch hot-swap SSDs - S4610 Mainstream 6 Gbps SATA			
ThinkSystem 2.5" Intel S4610 240GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13633	B49L	8
ThinkSystem 2.5" Intel S4610 480GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13634	B49M	8
ThinkSystem 2.5" Intel S4610 960GB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13635	B49N	8
ThinkSystem 2.5" Intel S4610 1.92TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13636	B49P	8
ThinkSystem 2.5" Intel S4610 3.84TB Mainstream SATA 6Gb Hot Swap SSD	4XB7A13637	B49Q	8
2.5-inch hot-swap SSDs - PM1643 Capacity 12 Gbps SAS			
ThinkSystem 2.5" PM1643 3.84TB Capacity SAS 12Gb Hot Swap SSD	4XB7A13645	B4A7	8
ThinkSystem 2.5" PM1643 7.68TB Capacity SAS 12Gb Hot Swap SSD	4XB7A13646	B4A6	8
2.5-inch hot-swap SSDs - 5100 Entry 6 Gbps SATA			
ThinkSystem 2.5" 5100 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A08503	B10P	8
ThinkSystem 2.5" 5100 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A08505	B10R	8
2.5-inch hot-swap SSDs - 5200 Entry 6 Gbps SATA			
ThinkSystem 2.5" 5200 480GB Entry SATA 6Gb Hot Swap SSD	4XB7A10153	B2X2	8
ThinkSystem 2.5" 5200 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A10154	B2X3	8
ThinkSystem 2.5" 5200 1.92TB Entry SATA 6Gb Hot Swap SSD	4XB7A10155	B2X4	8
ThinkSystem 2.5" 5200 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A10156	B2X5	8
ThinkSystem 2.5" 5200 7.68TB Entry SATA 6Gb Hot Swap SSD	4XB7A10157	B2X6	8
2.5-inch hot-swap SSDs - PM863a Entry 6 Gbps SATA			
ThinkSystem 2.5" PM863a 240GB Entry SATA 6Gb Hot Swap SSD	7N47A00111	AUUQ	8
ThinkSystem 2.5" PM863a 960GB Entry SATA 6Gb Hot Swap SSD	7N47A00113	AVCZ	8
ThinkSystem 2.5" PM863a 1.92TB Entry SATA 6Gb Hot Swap SSD	7N47A00114	AVRC	8
2.5-inch hot-swap SSDs - PM883 Entry 6 Gbps SATA			
ThinkSystem 2.5" PM883 240GB Entry SATA 6Gb Hot Swap SSD	4XB7A10195	B34H	8
ThinkSystem 2.5" PM883 480GB Entry SATA 6Gb Hot Swap SSD	4XB7A10196	B34J	8
ThinkSystem 2.5" PM883 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A10197	B34K	8
ThinkSystem 2.5" PM883 1.92TB Entry SATA 6Gb Hot Swap SSD	4XB7A10198	B34L	8
ThinkSystem 2.5" PM883 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A10199	B34M	8
ThinkSystem 2.5" PM883 7.68TB Entry SATA 6Gb Hot Swap SSD	4XB7A10200	B4D2	8
2.5-inch hot-swap SSDs - S4500 Entry 6 Gbps SATA			
ThinkSystem 2.5" Intel S4500 240GB Entry SATA 6Gb Hot Swap SSD	7SD7A05742	B0YY	8
ThinkSystem 2.5" Intel S4500 480GB Entry SATA 6Gb Hot Swap SSD	7SD7A05741	B0YZ	8
ThinkSystem 2.5" Intel S4500 960GB Entry SATA 6Gb Hot Swap SSD	7SD7A05740	B0Z0	8
ThinkSystem 2.5" Intel S4500 1.92TB Entry SATA 6Gb Hot Swap SSD	7SD7A05739	B0Z1	8
2.5-inch hot-swap SSDs - S4510 Entry 6 Gbps SATA			
ThinkSystem 2.5" Intel S4510 240GB Entry SATA 6Gb Hot Swap SSD	4XB7A10247	B498	8
ThinkSystem 2.5" Intel S4510 480GB Entry SATA 6Gb Hot Swap SSD	4XB7A10248	B499	8
ThinkSystem 2.5" Intel S4510 960GB Entry SATA 6Gb Hot Swap SSD	4XB7A10249	B49A	8

Description	Part number	Feature code	Maximum quantity
ThinkSystem 2.5" Intel S4510 1.92TB Entry SATA 6Gb Hot Swap SSD	4XB7A13622	B49B	8
ThinkSystem 2.5" Intel S4510 3.84TB Entry SATA 6Gb Hot Swap SSD	4XB7A13623	B49C	8

Table 23. Drive options for internal storage: M.2 non-hot-swap drives

Description	Part number	Feature code	Maximum quantity
ThinkSystem M.2 CV1 32GB SATA 6Gbps Non-Hot-Swap SSD	7N47A00129	AUUL	2
ThinkSystem M.2 CV3 128GB SATA 6Gbps Non-Hot-Swap SSD	7N47A00130	AUUV	2
ThinkSystem M.2 5100 240GB SATA 6Gbps Non-Hot Swap SSD	4XB7A14049	B5S4	2
ThinkSystem M.2 5100 480GB SATA 6Gbps Non-Hot Swap SSD	7SD7A05703	B11V	2

## Optical drives

The SR530 server supports the external USB optical drive option listed in the following table.

Table 24. Optical drive

Description	Part number	Feature code	Maximum quantity
ThinkSystem External USB DVD RW Optical Disk Drive	7XA7A05926	AVV8	1

The External USB DVD RW Optical Disk Drive supports the following types of media: CD-ROM, CD-R, CD-RW, DVD-R, DVD+R, DVD-ROM, DVD-RW, and DVD+RW.

## I/O expansion

The SR530 server supports one LOM card slot and up to three PCIe slots with different riser cards installed into two riser sockets on the system planar (one riser socket supports installation of one riser card).

The slot form factors are as follows:

- LOM card slot
- 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

### Configuration notes:

- PCIe x16 slot 3 requires the second processor to be installed.
- The COM Port Upgrade Kit is installed in place of one of the PCIe slots 1, 2, or 3.

The locations of the PCIe slots are shown in the following figure.

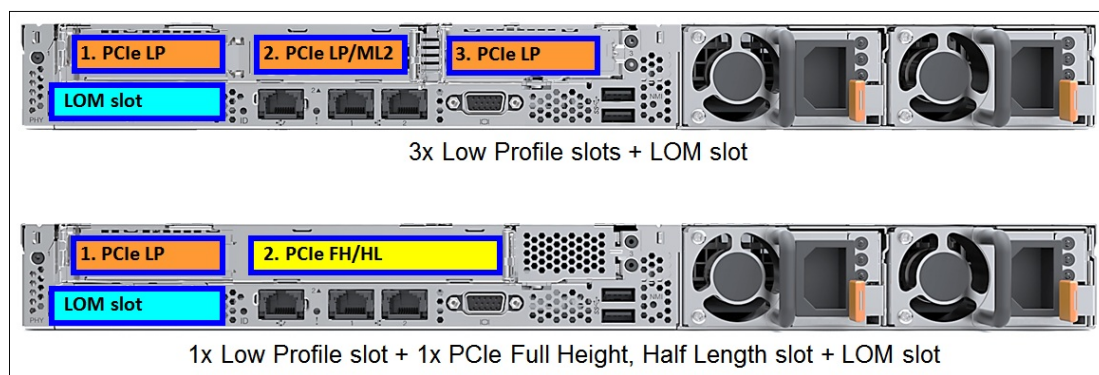


Figure 7. Slot locations

Riser 1 supplies slots 1 and 2, and Riser 2 supplies slot 3. The slots that are available for use depend on the number of riser cards that are installed and whether the second processor is installed, as shown in the following table.

Table 25. Slots available for use

Riser Card 1	Riser Card 2	Slots available for use	
		Processor 1	Processor 2
None	None	LOM	-
None	PCIe x8	LOM, 3	-
None	PCIe x16	LOM	3
PCIe x8/x16 or PCIe x8/x8ML2	None	LOM, 1, 2	-
PCIe x8/x16 or PCIe x8/x8ML2	PCIe x8	LOM, 1, 2, 3	-
PCIe x8/x16 or PCIe x8/x8ML2	PCIe x16	LOM, 1, 2	3

The following table lists available PCIe riser card options.

Table 26. PCIe riser cards and miscellaneous options

Description	Part number	Feature code	Maximum quantity
x8 Riser Card 1 options (Riser card 1 supplies slots 1 and 2)			
ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+LP Riser 1 Kit	7XH7A02682	AUWC	1
ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+FH Riser 1 Kit	7XH7A05893	None*	1
ThinkSystem SR530/SR570 x8/x8ML2 PCIe LP+LP Riser 1 Kit	7XH7A05892	AV0X	1
Riser Card 2 option (Riser card 2 supplies slot 3)			
ThinkSystem SR530/SR570/SR630 x16 PCIe LP Riser 2 Kit	7XH7A02685	AUWA	1
ThinkSystem SR530/SR570 x8 PCIe LP Riser 2 Kit	7XH7A05891	AV0W	1
Serial port upgrade kit			
ThinkSystem COM Port Upgrade Kit	7Z17A02577	AUSL	1

\* The LP+FH Riser 1 can be factory-installed by selecting the feature codes AUWC (LP+LP Riser 1) and AUWS (LP+FH Bracket).

The COM Port Upgrade Kit, part number 7Z17A02577, is used for mounting the external serial port on the rear of the SR530. This option includes the bracket and the cable. The COM Port option is mounted in place of one of the PCIe slots 1, 2, or 3.

## Network adapters

The SR530 server has two onboard 1 GbE ports (no 10/100 Mb support) and up to two additional onboard 1/10 GbE network ports (no 10/100 Mb support) with optional LOM cards. Onboard ports and LOM cards use the Intel Ethernet Connection X722 1/10 GbE technology integrated into the Intel C622 Platform Controller Hub (PCH). The server also supports ML2 adapters that are installed in the custom ML2 slot provided by an ML2 riser card. The LOM cards support direct connectivity to the XClarity Controller via the Network Controller Sideband Interface (NSCI) for out-of-band systems management.

**Note:** ML2 network adapters do not support NSCI when used in the SR530 server.

The integrated Intel Ethernet Connection X722 has the following features:

- Two 1 Gb Ethernet ports (no 10/100 Mb Ethernet support)
- Two 1/10 Gb Ethernet capable ports (no 10/100 Mb Ethernet support)
- NIC Teaming (load balancing and failover)
- Data Center Bridging
- iWARP (RDMA over IP)
- VMDq and SR-IOV virtualization (10 Gb speeds only, 4 PFs, 128 VFs per device)
- IEEE 802.1q Virtual Local Area Networks (VLANs)
- NVGRE, VXLAN, IPinGRE, and MACinUDP network virtualization
- IEEE 802.1Qbg Edge Virtual Bridging
- TCP, IP, and UDP checksum offload
- Large Send Offload (LSO) and Generic Send Offload (GSO)
- Receive Side Scaling (RSS) for TCP and UDP traffic
- Jumbo frames up to 9.5 Kbytes

The following table lists the network adapters that are supported with the SR530 server.

Table 27. Network adapters

Description	Part number	Feature code	Max qty	I/O slots supported
LOM cards - 1 Gb Ethernet				
ThinkSystem 1Gb 2-port RJ45 LOM	7ZT7A00544	AUKG	1	LOM slot
LOM cards - 10 Gb Ethernet				
ThinkSystem 10Gb 2-port Base-T LOM	7ZT7A00548	AUKL	1	LOM slot

Description	Part number	Feature code	Max qty	I/O slots supported
ThinkSystem 10Gb 2-port SFP+ LOM	7ZT7A00546	AUKJ	1*	LOM slot
ML2 adapters - 10 Gb Ethernet				
Broadcom NX-E ML2 10Gb 2-Port Base-T Ethernet Adapter	7ZT7A00497	AUKQ	1	2 (ML2)
Emulex VFA5.2 ML2 Dual Port 10GbE SFP+ Adapter	00AG560	AT7U	1*	2 (ML2)
Emulex VFA5.2 ML2 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW	01CV770	AU7Z	1*	2 (ML2)
Intel X710-DA2 ML2 2x10GbE SFP+ Adapter	00JY940	ATRH	1*	2 (ML2)
PCIe Low Profile adapters - 1 Gb Ethernet				
Broadcom 5720 1GbE RJ45 2-Port PCIe Ethernet Adapter	7ZT7A00482	AUZX	3	1, 2, 3
Broadcom 5719 1GbE RJ45 4-Port PCIe Ethernet Adapter	7ZT7A00484	AUZV	3	1, 2, 3
ThinkSystem I350-F1 PCIe 1Gb 1-Port SFP Ethernet Adapter	7ZT7A00533	AUZZ	3	1, 2, 3
ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	7ZT7A00534	AUZY	3	1, 2, 3
ThinkSystem I350-T4 PCIe 1Gb 4-Port RJ45 Ethernet Adapter	7ZT7A00535	AUZW	3	1, 2, 3
PCIe Low Profile adapters - 10 Gb Ethernet				
Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter	7ZT7A00496	AUKP	3	1, 2, 3
Emulex VFA5.2 2x10 GbE SFP+ PCIe Adapter	00AG570	AT7S	3*	1, 2, 3
Emulex VFA5.2 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW	00AG580	AT7T	3*	1, 2, 3
Intel X550-T2 Dual Port 10GBase-T Adapter	00MM860	ATPX	3	1, 2, 3
Intel X710-DA2 PCIe 10Gb 2-Port SFP+ Ethernet Adapter	7ZT7A00537	AUKX	3*	1, 2, 3
QLogic QL41134 PCIe 10Gb 4-Port Base-T Ethernet Adapter	4XC7A08225	B31G	3	1, 2, 3
PCIe Full Height adapters - 10 Gb Ethernet				
Emulex OCe14104B-NX PCIe 10Gb 4-Port SFP+ Ethernet Adapter	7ZT7A00493	AUKN	1*	2
PCIe Low Profile adapters - 25 Gb Ethernet				
Broadcom 57412 10/25GbE SFP28 1-Port PCIe Ethernet Adapter	7ZT7A00505	AUKS	3*	1, 2, 3
PCIe Low Profile adapters - Omni-Path				
Intel OPA 100 Series Single-port PCIe 3.0 x16 HFA	00WE027	AU0B	1 / 2#*	2, 3

# The maximum quantity shown is with one processor / two processors.

\* The adapter comes without transceivers or cables; for ordering transceivers or cables, see the configuration notes below the table.

#### Configuration notes:

- ML2 network adapters are supported in the ML2 x8 slot 2 supplied by the x8/x8ML2 Riser Card 1 (7XH7A05892).
- PCIe full-height network adapters are supported in the full-height PCIe x16 slot 2 supplied by the PCIe x8/x16 LP+FH Riser Card 1 (7XH7A05893).
- Omni-Path adapters are supported in the low profile or full-height PCIe x16 slots supplied by the riser cards 1 and 2.
- PCIe Low Profile network adapters (except Omni-Path adapters) are supported in the low profile and full-height PCIe x8 and x16 slots supplied by the riser cards 1 and 2. The PCIe x16 slot 3 requires the second processor to be installed.
- Some adapters require supported transceivers or DAC cables to be purchased for the adapter. The maximum number of transceivers or cables that are supported per adapter equals the quantity of the adapter ports, and all adapter ports must have the same type of the transceiver or cable selected.

The following transceiver and cables can be purchased:

- [Transceivers and cables for 10 GbE SFP+ adapters](#)
- [Transceivers and cables for 25 GbE SFP28 adapters](#)
- [Cables for Intel Omni-Path QSFP28 adapters](#)

The following table lists transceivers and cables for the 10 GbE SFP+ adapters.

Table 28. Transceivers and cables for 10 GbE SFP+ adapters

Description	Part number	Feature code
10 GbE SFP+ SR transceivers for 10 GbE SFP+ adapters		
Lenovo 10GBASE-SR SFP+ Transceiver	46C3447	5053
Lenovo 10GBASE-LR SFP+ Transceiver	00FE331	B0RJ
Optical cables for 10 GbE SFP+ SR transceivers		
Lenovo 0.5m LC-LC OM3 MMF Cable	00MN499	ASR5
Lenovo 1m LC-LC OM3 MMF Cable	00MN502	ASR6
Lenovo 3m LC-LC OM3 MMF Cable	00MN505	ASR7
Lenovo 5m LC-LC OM3 MMF Cable	00MN508	ASR8
Lenovo 10m LC-LC OM3 MMF Cable	00MN511	ASR9
Lenovo 15m LC-LC OM3 MMF Cable	00MN514	ASRA
Lenovo 25m LC-LC OM3 MMF Cable	00MN517	ASRB
Lenovo 30m LC-LC OM3 MMF Cable	00MN520	ASRC
Passive SFP+ DAC cables for 10 GbE SFP+ adapters		
Lenovo 0.5m Passive SFP+ DAC Cable	00D6288	A3RG
Lenovo 1m Passive SFP+ DAC Cable	90Y9427	A1PH
Lenovo 1.5m Passive SFP+ DAC Cable	00AY764	A51N
Lenovo 2m Passive SFP+ DAC Cable	00AY765	A51P
Lenovo 3m Passive SFP+ DAC Cable	90Y9430	A1PJ
Lenovo 5m Passive SFP+ DAC Cable	90Y9433	A1PK
Lenovo 7m Passive SFP+ DAC Cable	00D6151	A3RH
Active SFP+ DAC cables for 10 GbE SFP+ adapters*		
Lenovo 1m Active DAC SFP+ Cable	00VX111	AT2R
Lenovo 3m Active DAC SFP+ Cable	00VX114	AT2S
Lenovo 5m Active DAC SFP+ Cable	00VX117	AT2T
SFP+ active optical cables for 10 GbE SFP+ adapters		
Lenovo 1m SFP+ to SFP+ Active Optical Cable	00YL634	ATYX
Lenovo 3m SFP+ to SFP+ Active Optical Cable	00YL637	ATYY
Lenovo 5m SFP+ to SFP+ Active Optical Cable	00YL640	ATYZ
Lenovo 7m SFP+ to SFP+ Active Optical Cable	00YL643	ATZ0
Lenovo 15m SFP+ to SFP+ Active Optical Cable	00YL646	ATZ1
Lenovo 20m SFP+ to SFP+ Active Optical Cable	00YL649	ATZ2

\* The Emulex VFA5.2 ML2 (00AG560 and 01CV770) and PCIe (00AG570 and 00AG580) network adapters do not support active SFP+ DAC cables.

The following table lists transceivers and cables for the 25 GbE SFP28 adapters.

Table 29. Transceivers and cables for 25 GbE SFP28 adapters

Description	Part number	Feature code
25 GbE SFP28 SR transceivers for 25 GbE SFP28 adapters		
Lenovo 25GBase-SR SFP28 Transceiver	7G17A03537	AV1B
Optical cables for 25 GbE SFP28 SR transceivers		
Lenovo 0.5m LC-LC OM3 MMF Cable	00MN499	ASR5
Lenovo 1m LC-LC OM3 MMF Cable	00MN502	ASR6
Lenovo 3m LC-LC OM3 MMF Cable	00MN505	ASR7
Lenovo 5m LC-LC OM3 MMF Cable	00MN508	ASR8
Lenovo 10m LC-LC OM3 MMF Cable	00MN511	ASR9
Lenovo 15m LC-LC OM3 MMF Cable	00MN514	ASRA
Lenovo 25m LC-LC OM3 MMF Cable	00MN517	ASRB
Lenovo 30m LC-LC OM3 MMF Cable	00MN520	ASRC
Passive copper cables for 25 GbE SFP28 network adapters		
Lenovo 1m Passive 25G SFP28 DAC Cable	7Z57A03557	AV1W
Lenovo 3m Passive 25G SFP28 DAC Cable	7Z57A03558	AV1X
Lenovo 5m Passive 25G SFP28 DAC Cable	7Z57A03559	AV1Y
Active optical cables for 25 GbE SFP28 network adapters		
Lenovo 3m 25G SFP28 Active Optical Cable	7Z57A03541	AV1F
Lenovo 5m 25G SFP28 Active Optical Cable	7Z57A03542	AV1G
Lenovo 10m 25G SFP28 Active Optical Cable	7Z57A03543	AV1H
Lenovo 15m 25G SFP28 Active Optical Cable	7Z57A03544	AV1J
Lenovo 20m 25G SFP28 Active Optical Cable	7Z57A03545	AV1K

The following table lists cables for the Intel Omni-Path QSFP28 adapters.

Table 30. Cables for Intel Omni-Path QSFP28 adapters

Description	Part number	Feature code
Passive copper cables for Intel Omni-Path QSFP28 adapters		
0.5m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE031	AU0E
0.75m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE035	AU0F
1m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE039	AU0G
1.25m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE043	AU0H
1.5m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE047	AU0J
2m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE051	AU0K
3m Intel OPA 100 Series Passive Copper QSFP28 Cable	00WE055	AU0L
Active optical cables for Intel Omni-Path QSFP28 adapters		
5m Intel OPA 100 Series Active Optical QSFP28 Cable	00WE059	AU0M
10m Intel OPA 100 Series Active Optical QSFP28 Cable	00WE063	AU0N
15m Intel OPA 100 Series Active Optical QSFP28 Cable	00WE067	AU0P
20m Intel OPA 100 Series Active Optical QSFP28 Cable	00WE071	AU0Q

For more information, see the list of Product Guides in the following categories:

- Ethernet Adapters  
<http://lenovopress.com/servers/options/ethernet#rt=product-guide>
- InfiniBand / OPA Adapters  
<http://lenovopress.com/servers/options/infiniband#rt=product-guide>

## SAS adapters for external storage

The following table lists SAS RAID controllers and HBAs for external storage attachments that are supported by the SR530 server.

Table 31. SAS RAID adapters and HBAs for external storage

Description	Part number	Feature code	Maximum quantity	I/O slots supported
12 Gbps SAS RAID adapters				
ThinkSystem RAID 930-8e 4GB Flash PCIe 12Gb Adapter	7Y37A01087	AUNQ	2	1, 2, 3
12 Gbps SAS HBAs				
ThinkSystem 430-8e SAS/SATA 12Gb HBA	7Y37A01090	AUNR	2	1, 2, 3
ThinkSystem 430-16e SAS/SATA 12Gb HBA	7Y37A01091	AUNN	2	1, 2, 3

### Configuration notes:

- Low profile SAS RAID controllers and HBAs for external storage are supported in the low profile and full-high PCIe x8 and x16 slots supplied by the riser cards 1 and 2. The PCIe x16 slot 3 requires the second processor to be installed.
- The total quantity of the RAID 730-8i 2GB, RAID 930-8i, RAID 930-16i, and RAID 930-8e controllers in a supported combination in the server must not exceed 2 (up to 2 supercapacitors can be mounted in the server).

The following table summarizes features of supported RAID controllers and HBAs for external storage.

Table 32. Features and specifications of the RAID controllers and HBAs for external storage

Feature	RAID 930-8e	430-8e HBA	430-16e HBA
Form factor	PCIe LP	PCIe LP	PCIe LP
SAS controller chip	SAS3516	SAS3408	SAS3416
Host interface	PCIe 3.0 x8	PCIe 3.0 x8	PCIe 3.0 x8
Port interface	12 Gb SAS	12 Gb SAS	12 Gb SAS
Number of ports	8	8	16
Connector type	SFF-8644 x4	SFF-8644 x4	SFF-8644 x4
Number of connectors	2	2	4
Drive interface	SAS, SATA	SAS, SATA	SAS, SATA
Drive type	HDD, SSD, SED	HDD, SSD, SED*	HDD, SSD, SED*
Hot-swap drive support	Yes	Yes	Yes
Number of devices	240	1024	1024
RAID levels	0/1/10/5/50/6/60	None	None
JBOD mode	Yes	Yes	Yes
Cache	4 GB	None	None
Cache protection	Flash backup (Included)	None	None
SED key management (SafeStore)	Yes	No	No
SSD I/O acceleration (FastPath)	Yes	No	No

Feature	RAID 930-8e	430-8e HBA	430-16e HBA
SSD Caching (CacheCade Pro 2.0)	No**	No	No
Consistency check	Yes	No	No
Patrol read	Yes	No	No
Online capacity expansion	Yes	No	No
Online RAID level migration	Yes	No	No
Global Hot Spare	Yes	No	No
Auto-rebuild	Yes	No	No

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

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

For more information, see the list of Product Guides in the following categories:

- RAID adapters  
<http://lenovopress.com/servers/options/raid#rt=product-guide>
- Host bus adapters  
<http://lenovopress.com/servers/options/hba#rt=product-guide>

## Fibre Channel host bus adapters

The following table lists Fibre Channel HBAs supported by the SR530 server.

Table 33. Fibre Channel HBAs

Description	Part number	Feature code	Maximum quantity	I/O slots supported
16 Gb Fibre Channel - PCIe				
Emulex 16Gb Gen6 FC Single-port HBA	01CV830	ATZU	3	1, 2, 3
Emulex 16Gb Gen6 FC Dual-port HBA	01CV840	ATZV	3	1, 2, 3
QLogic 16Gb Enhanced Gen5 FC Single-port HBA	01CV750	ATZB	3	1, 2, 3
QLogic 16Gb Enhanced Gen5 FC Dual-port HBA	01CV760	ATZC	3	1, 2, 3
8 Gb Fibre Channel - PCIe (available only in PRC and Asia Pacific)				
Emulex LPe12002-M8-L PCIe 8Gb 2-Port SFP+ FC HBA	4XC7A08221	B0X0	3	1, 2, 3
Emulex LPe12000-M8-L PCIe 8Gb 1-Port SFP+ FC HBA	4XC7A08220	B0WZ	3	1, 2, 3

**Configuration note:** FC HBAs are supported in the low profile and full-high PCIe x8 and x16 slots supplied by the riser cards 1 and 2. The PCIe x16 slot 3 requires the second processor to be installed.

For more information, see the list of Product Guides in the Host bus adapters category:

<http://lenovopress.com/servers/options/hba#rt=product-guide>

## Cooling

The SR530 server supports up to six non-hot-swap system fans that provide N+1 cooling redundancy. SR530 server models with one processor include four system fans, and server models with two processors include six system fans.

## Power supplies and cables

The SR530 server supports up to two redundant power supplies and is capable of N+N redundancy depending on the configuration. A second power supply can be added to the models that come with one power supply. The following table lists the power supply options.

Table 34. Power supplies

Description	Part number	Feature code	Maximum quantity
ThinkSystem 550W (230V/115V) Platinum Hot-Swap Power Supply	7N67A00882	AVV6	2
ThinkSystem 750W (230/115V) Platinum Hot-Swap Power Supply	7N67A00883	AVV7	2
ThinkSystem 750W (230V) Titanium Hot-Swap Power Supply	7N67A00884	AVV5	2

### Configuration notes:

- Minimum of 1 and maximum of 2 power supplies per system.
- If 2 are installed, power supplies must be identical.
- Power supplies support AC (Worldwide) and HVDC (PRC only) power sources.

**Important:** The Standalone Solution Configuration Tool (SSCT) and Lenovo Data Center Solution Configurator (DCSC) power supply selection rules allow a subset of possible configurations due to power restrictions. Configurations that cannot be built in SSCT or DCSC due to power restrictions may still be supported. To verify support and ensure that the right power supply is chosen for optimal performance, you should always validate your server configuration using the latest version of the Lenovo Capacity Planner:

<http://datacentersupport.lenovo.com/us/en/solutions/Invo-lcp>

The SR530 server ship standard with or without a power cord (model dependent). A hot-swap power supply option ships without a power cord. The following table lists the country-specific line cords and rack power cables that can be ordered for the SR530 server.

Table 35. Power cables

Description	Part number	Feature code
Rack power cables		
1.0m, 10A/125-250V, C13 to IEC 320-C14 Rack Power Cable	00Y3043	A4VP
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	39Y7937	6201
2.0m, 13A/125V-10A/250V, C13 to IEC 320-C14 Rack Power Cable	4L67A08369	6570
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	4L67A08366	6311
2.8m, 13A/125V-10A/250V, C13 to IEC 320-C14 Rack Power Cable	4L67A08370	6400
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	39Y7938	6204
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	39Y7932	6263
4.3m, 13A/125V-10A/250V, C13 to IEC 320-C14 Rack Power Cable	4L67A08371	6583
Country-specific line cords		
Argentina 2.8m, 10A/250V, C13 to IRAM 2073 Line Cord	39Y7930	6222
Argentina 4.3m, 10A/250V, C13 to IRAM 2073 Line Cord	81Y2384	6492
Australia/New Zealand 2.8m, 10A/250V, C13 to AS/NZS 3112 Line Cord	39Y7924	6211
Australia/New Zealand 4.3m, 10A/250V, C13 to AS/NZS 3112 Line Cord	81Y2383	6574
Brazil 2.8m, 10A/250V, C13 to NBR 14136 Line Cord	69Y1988	6532
Brazil 4.3m, 10A/250V, C13 to NBR14136 Line Cord	81Y2387	6404
China 2.8m, 10A/250V, C13 to GB 2099.1 Line Cord	39Y7928	6210
China 4.3m, 10A/250V, C13 to GB 2099.1 Line Cord	81Y2378	6580
Denmark 2.8m, 10A/250V, C13 to DK2-5a Line Cord	39Y7918	6213

<b>Description</b>	<b>Part number</b>	<b>Feature code</b>
Denmark 4.3m, 10A/250V, C13 to DK2-5a Line Cord	81Y2382	6575
Europe 2.8m, 10A/250V, C13 to CEE7-VII Line Cord	39Y7917	6212
Europe 4.3m, 10A/250V, C13 to CEE7-VII Line Cord	81Y2376	6572
India 2.8m, 10A/250V, C13 to IS 6538 Line Cord	39Y7927	6269
India 4.3m, 10A/250V, C13 to IS 6538 Line Cord	81Y2386	6567
Israel 2.8m, 10A/250V, C13 to SI 32 Line Cord	39Y7920	6218
Israel 4.3m, 10A/250V, C13 to SI 32 Line Cord	81Y2381	6579
Italy 2.8m, 10A/250V, C13 to CEI 23-16 Line Cord	39Y7921	6217
Italy 4.3m, 10A/250V, C13 to CEI 23-16 Line Cord	81Y2380	6493
Japan 2.8m, 12A/125V, C13 to JIS C-8303 Line cord	46M2593	6314
Japan 2.8m, 12A/250V, C13 to JIS C-8303 Line Cord	4L67A08357	5472
Japan 4.3m, 12A/125V, C13 to JIS C-8303 Line Cord	39Y7926	6335
Japan 4.3m, 12A/250V, C13 to JIS C-8303 Line Cord	4L67A08362	6495
Korea 2.8m, 12A/250V, C13 to KS C8305 Line Cord	39Y7925	6219
Korea 4.3m, 12A/250V, C13 to KS C8305 Line Cord	81Y2385	6494
South Africa 2.8m, 10A/250V, C13 to SABS 164 Line Cord	39Y7922	6214
South Africa 4.3m, 10A/250V, C13 to SABS 164 Line Cord	81Y2379	6576
Switzerland 2.8m, 10A/250V, C13 to SEV 1011-S24507 Line Cord	39Y7919	6216
Switzerland 4.3m, 10A/250V, C13 to SEV 1011-S24507 Line Cord	81Y2390	6578
Taiwan 2.8m, 10A/125V, C13 to CNS 10917-3 Line Cord	23R7158	6386
Taiwan 2.8m, 10A/250V, C13 to CNS 10917-3 Line Cord	81Y2375	6317
Taiwan 2.8m, 15A/125V, C13 to CNS 10917-3 Line Cord	81Y2374	6402
Taiwan 4.3m, 10A/125V, C13 to CNS 10917-3 Line Cord	4L67A08363	AX8B
Taiwan 4.3m, 10A/250V, C13 to CNS 10917-3 Line Cord	81Y2389	6531
Taiwan 4.3m, 15A/125V, C13 to CNS 10917-3 Line Cord	81Y2388	6530
United Kingdom 2.8m, 10A/250V, C13 to BS 1363/A Line Cord	39Y7923	6215
United Kingdom 4.3m, 10A/250V, C13 to BS 1363/A Line Cord	81Y2377	6577
United States 2.8m, 10A/125V, C13 to NEMA 5-15P Line Cord	90Y3016	6313
United States 2.8m, 10A/250V, C13 to NEMA 6-15P Line Cord	46M2592	A1RF
United States 2.8m, 13A/125V, C13 to NEMA 5-15P Line Cord	00WH545	6401
United States 4.3m, 10A/125V, C13 to NEMA 5-15P Line Cord	4L67A08359	6370
United States 4.3m, 10A/250V, C13 to NEMA 6-15P Line Cord	4L67A08361	6373
United States 4.3m, 13A/125V, C13 to NEMA 5-15P Line Cord	4L67A08360	AX8A

## Systems management

The SR530 supports the following systems management tools:

- Lenovo XClarity Controller
- Lenovo XClarity Provisioning Manager
- Lenovo XClarity Essentials
- Lenovo XClarity Administrator
- Lenovo XClarity Integrators
- Lenovo XClarity Energy Manager
- Lenovo Capacity Planner

### Lenovo XClarity Controller

The SR530 server contains Lenovo XClarity Controller (XCC), which provides advanced service-processor control, monitoring, and alerting functions. XClarity Controller offers three functional levels: Standard, Advanced, and Enterprise.

By default, the SR530 server includes XClarity Controller Standard features, and it can be upgraded to Advanced or Enterprise functionality by using the Features on Demand (FoD) upgrades.

XClarity Controller Standard offers the following capabilities:

- Gathering and viewing system information and inventory
- Monitoring system status and health
- Alerting and notifications
- Event logging
- Configuring network connectivity
- Configuring security
- Updating system firmware
- Configuring server settings and devices
- Real-time power usage monitoring
- Remotely controlling server power (Power on, Power off, Restart)
- Managing FoD activation keys
- Redirecting serial console via IPMI
- Capturing the video display contents when an operating system hang condition is detected

XClarity Controller Advanced Upgrade adds the following functionality to the Standard features:

- Remotely viewing video with the following graphics resolutions:
  - Up to 1600x1200 with up to 23 bits per pixel; or
  - Up to 1920x1200 with up to 15 bits per pixel
- Remotely accessing the server using the keyboard and mouse from a remote client
- Remotely deploying an operating system
- Syslog alerting
- Redirecting serial console via SSH
- Displaying graphics for real-time and historical power usage data and temperature

XClarity Controller Enterprise Upgrade adds the following functionality to the Advanced features:

- Capping power usage
- Mapping the ISO and image files located on the local client as virtual drives for use by the server
- Mounting the remote ISO and image files via HTTPS, SFTP, CIFS, and NFS
- Collaborating across up to six users of the virtual console
- Controlling quality and bandwidth usage

The XClarity Controller provides remote server management through industry-standard interfaces:

- Intelligent Platform Management Interface (IPMI) Version 2.0
- Simple Network Management Protocol (SNMP) Version 3
- Common Information Model (CIM)
- Data Center Manageability Interface (DCMI) Version 1.5
- Redfish REpresentational State Transfer (REST) API
- Web browser with HTML5 support
- Command-line interface
- Virtual Operator Panel with XClarity Mobile App via the front USB port with XClarity Controller access

Virtual Operator Panel provides quick access to system status, firmware, network, health, and alerts information. With proper authentication, it also allows to configure systems management and network settings and to control system power (Power on, Power off, Restart). The Virtual Operator Panel can be accessed 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 (See [Components and connectors](#)).

**Note:** Depending on the system settings, the front USB port can be assigned to XClarity Controller for management functions, or to the system as a regular USB 2.0 port, or switched between two functions by using the system ID button.

The following table lists the XClarity Controller FoD upgrades.

Table 36. XClarity Controller FoD upgrades

Description	Part number	Feature code	Maximum quantity
ThinkSystem XClarity Controller Standard to Advanced Upgrade	4L47A09132	AVUT	1
ThinkSystem XClarity Controller Standard to Enterprise Upgrade	None*	AUPW	1
ThinkSystem XClarity Controller Advanced to Enterprise Upgrade	4L47A09133	None**	1

\* Factory-installed only.

\*\* Field upgrade only.

**Configuration notes:**

- For factory-installed upgrades, either Standard to Advanced Upgrade (feature AVUT) or Standard to Enterprise Upgrade (feature AUPW) can be selected, but not both.
- For field upgrades, the Advanced to Enterprise Upgrade (4L47A09133) requires the Standard to Advanced Upgrade to be activated on the server previously with either the factory-installed feature AVUT or field upgrade 4L47A09132.

## Lenovo XClarity Provisioning Manager

Lenovo XClarity Provisioning Manager is a UEFI-embedded GUI application that combines the functions of configuring system setup settings, configuring RAID, and updating applications and firmware. It also enables you to install the supported operating systems and associated device drivers, run diagnostics, and collect service data.

Lenovo XClarity Provisioning Manager has the following features:

- Automatic hardware detection
- Collecting and viewing system inventory information
- Configuring UEFI system setup settings
- Updating the system firmware
- Configuring RAID by using the RAID Setup Wizard or Advanced mode
- Installing an operating system and device drivers automatically or manually
- Running diagnostics and collecting service data

## Lenovo XClarity Essentials

Lenovo offers the following XClarity Essentials software tools that can help you set up, use, and maintain the server at no additional cost:

- **Lenovo XClarity Essentials OneCLI**  
OneCLI is a collection of server management tools that utilize a command line interface program to manage firmware, hardware, and operating systems. It provides functions to collect full system health information (including health status), configure system setting, and update system firmware and drivers.
- **Lenovo XClarity Essentials UpdateXpress**  
The UpdateXpress tool is a standalone GUI application for firmware and device driver updates that enables you to maintain your server firmware and device drivers up-to-date and help you avoid unnecessary server outages. The tool acquires and deploys individual updates and UpdateXpress System Packs (UXSPs) which are integration-tested bundles.
- **Lenovo XClarity Essentials Bootable Media Creator**  
The Bootable Media Creator (BOMC) tool is used to create bootable media for offline firmware update.

For more information and downloads, visit the Lenovo XClarity Essentials web page:

<http://support.lenovo.com/us/en/documents/LNVO-center>

## Lenovo XClarity Administrator

Lenovo XClarity is a centralized systems management solution that helps administrators deliver infrastructure faster. This solution integrates easily with Lenovo x86 servers, RackSwitch switches, and DS Series storage, providing automated agent-less discovery, monitoring, firmware updates, configuration management, and bare metal deployment of operating systems and hypervisors across multiple servers.

Lenovo XClarity Administrator is an optional software component for the SR530 server which can be downloaded and used at no charge to discover and monitor the SR530 and manage firmware upgrades for them.

If software support is required for Lenovo XClarity Administrator, or Lenovo XClarity Administrator premium features (such as configuration management and operating system deployment) are required, or both, Lenovo XClarity Pro software subscription should be ordered. Lenovo XClarity Pro is licensed on a per managed system basis, that is, each managed Lenovo system requires a license.

The following table lists the geo-specific Lenovo XClarity software license options.

Table 37. Lenovo XClarity software options

Description	Part number (NA, AP, Japan)*	Part number (EMEA, LA)**	Quantity
Lenovo XClarity Pro, per Managed Endpoint w/1 Yr SW S&S	00MT201	00MT207	1
Lenovo XClarity Pro, per Managed Endpoint w/3 Yr SW S&S	00MT202	00MT208	1
Lenovo XClarity Pro, per Managed Endpoint w/5 Yr SW S&S	00MT203	00MT209	1

\* NA = North America; AP = Asia Pacific

\*\* EMEA = Europe, Middle East, Africa; LA = Latin America

Lenovo XClarity Administrator offers the following standard features that are available at no charge:

- Auto-discovery and monitoring of Lenovo x86 servers, RackSwitch switches, Flex System chassis, and DS Series storage systems
- Firmware updates and compliance enforcement
- External alerts and notifications via SNMP traps, syslog remote logging, and e-mail
- Secure connections to managed endpoints
- NIST 800-131A or FIPS 140-2 compliant cryptographic standards between the management solution and managed endpoints
- Integration into existing higher level management systems such as cloud automation and orchestration tools through REST APIs, providing extensive external visibility and control over hardware resources
- An intuitive, easy-to-use GUI
- Scripting with Windows PowerShell, providing command-line visibility and control over hardware resources

Lenovo XClarity Administrator offers the following premium features that require an optional Pro license:

- Pattern-based configuration management that allows to define configurations once and apply repeatedly without errors when deploying new servers or redeploying existing servers without disrupting the fabric
- Bare-metal deployment of operating systems and hypervisors to streamline infrastructure provisioning

For more information, refer to the Lenovo XClarity Administrator Product Guide:

<http://lenovopress.com/tips1200>

## Lenovo XClarity Integrators

Lenovo offers at no charge (if software support is required, a Lenovo XClarity Pro software subscription license should be ordered) two software plug-in modules, Lenovo XClarity Integrators, to manage physical infrastructure from leading external virtualization management software tools from Microsoft and VMware:

- Lenovo XClarity Integrator for Microsoft System Center
- Lenovo XClarity Integrator for VMware vCenter

Lenovo XClarity Integrators offer the following additional features:

- Ability to discover, manage, and monitor Lenovo server hardware from VMware vCenter or Microsoft System Center
- Deployment of firmware updates and configuration patterns to Lenovo x86 rack servers and Flex System from the virtualization management tool
- Non-disruptive server maintenance in clustered environments that reduces workload downtime by dynamically migrating workloads from affected hosts during rolling server updates or reboots
- Greater service level uptime and assurance in clustered environments during unplanned hardware events by dynamically triggering workload migration from impacted hosts when impending hardware failures are predicted

For more information, refer to the Lenovo XClarity Integrators web page:

<http://www3.lenovo.com/us/en/data-center/software/systems-management/xclarity-integrators>

## Lenovo XClarity Energy Manager

Lenovo XClarity Energy Manager provides a stand-alone, web-based agent-less power management console that provides real time data and enables you to observe, plan and manage power and cooling for Lenovo servers. Using built-in intelligence, it identifies server power consumption trends and ideal power settings and performs cooling analysis so that you can define and optimize power-saving policies.

Lenovo XClarity Energy Manager offers the following capabilities:

- Monitors room, row, rack, and device levels in the data center
- Reports vital server information, such as power, temperature and resource utilization
- Monitors inlet temperature to locate hot spots, reducing the risk of data or device damage
- Provides finely-grained controls to limit platform power in compliance with IT policy
- Generates alerts when a user-defined threshold is reached

Lenovo XClarity Energy Manager is an optional software component for the SR530 server that is licensed on a per managed node basis, that is, each managed server requires a license. The 1-node Energy Manager license is included in the XClarity Controller Enterprise upgrade.

To manage systems without XClarity Controller Enterprise licenses, a node license pack should be purchased. The following table lists the geo-specific Lenovo XClarity Energy Manager software license options.

Table 38. Lenovo XClarity Energy Manager software options

Description	Part number (NA, AP, Japan)*	Part number (EMEA, LA)**	Quantity
Lenovo XClarity Energy Manager, 1 Node w/ 1 Yr S&S	01DA225	01DA228	1

\* NA = North America; AP = Asia Pacific.

\*\* EMEA = Europe, Middle East, Africa; LA = Latin America.

For more information, refer to the Lenovo XClarity Energy Manager web page:

<http://datacentersupport.lenovo.com/us/en/solutions/Invo-lxem>

## Lenovo Capacity Planner

Lenovo Capacity Planner is a power consumption evaluation tool that enhances data center planning by enabling IT administrators and pre-sales professionals to understand various power characteristics of racks, servers, and other devices. Capacity Planner can dynamically calculate the power consumption, current, British Thermal Unit (BTU), and volt-ampere (VA) rating at the rack level, improving the planning efficiency for large-scale deployments.

For more information, refer to the Capacity Planner web page:

<http://datacentersupport.lenovo.com/us/en/solutions/lnvo-lcp>

## Security

The SR530 server offers the following security features:

- Power-on password
- Administrator's password
- Secure firmware updates
- Onboard Trusted Platform Module (TPM) version 1.2 or 2.0 (configurable UEFI system setting)
- Trusted Cryptographic Module (TCM) (optional; available in PRC only)
- Nationz Trusted Platform Module v2.0 (optional; available in PRC only)
- Lockable front bezel (optional)
- Security Key Lifecycle Manager (SKLM) encryption key management for SEDs - FoD upgrade (optional)
- Lenovo Business Vantage security software (optional; available in PRC only)

The following table lists the security options that are available for the SR530 server.

Table 39. Security options

Description	Part number	Feature code	Maximum quantity
Lockable front bezel			
ThinkSystem 1U Security Bezel	7Z17A02581	AUWR	1
Trusted Cryptographic Module (PRC only)			
ThinkSystem Trusted Cryptographic Module	None*	AVKE	1
Trusted Platform Module (PRC only)			
ThinkSystem Nationz Trusted Platform Module v2.0	None*	B22N	1
Security Key Lifecycle Manager - FoD (United States, Canada, Asia Pacific, and Japan)			
SKLM for System x/ThinkSystem w/SEDs - FoD per Install w/1Yr S&S	00D9998	A5U1	1
SKLM for System x/ThinkSystem w/SEDs - FoD per Install w/3Yr S&S	00D9999	AS6C	1
Security Key Lifecycle Manager - FoD (Latin America, Europe, Middle East, and Africa)			
SKLM for System x/ThinkSystem w/SEDs - FoD per Install w/1Yr S&S	00FP648	A5U1	1
SKLM for System x/ThinkSystem w/SEDs - FoD per Install w/3Yr S&S	00FP649	AS6C	1

\* Factory-installed only; no field upgrade.

Lenovo Business Vantage is a security software tool suite (available only in PRC) designed to work with the Trusted Cryptographic Module (TCM) adapter for enhanced security, to keep user data safe, and to erase confidential data completely from a hard disk drive.

Lenovo Business Vantage provides the following features:

- Encrypts files to ensure data safety by using the TCM.
- Erases confidential data from a hard disk.
- Prohibits unauthorized access to the USB port of devices.
- Encrypts files to ensure data security on a USB storage device.

For more information, refer to the Lenovo Business Vantage web page:

<http://support.lenovo.com.cn/lenovo/wsi/es/es.html>

## Rack installation

The following table lists the rack installation options that are available for the SR530 server.

Table 40. Rack installation options

Description	Part number	Feature code	Maximum quantity
<b>4-post rail kits</b>			
ThinkSystem Tool-less Slide Rail	7M27A05702	AXCA	1
ThinkSystem Tool-less Slide Rail Kit with 1U CMA	7M27A05701	AXCB	1
ThinkSystem Screw-in Slide Rail	4M17A07274	AXFN	1
ThinkSystem Screw-in Slide Rail Kit with 1U CMA	4M17A07281	B0TE	1
ThinkSystem Tool-less Friction Rail	4M17A07273	AXFM	1
<b>Cable management arm (CMA) upgrade</b>			
ThinkSystem 1U CMA Upgrade Kit for Tool-less Slide Rail	7M27A05699	None^	1*
ThinkSystem 1U CMA Upgrade Kit for Screw-in Slide Rail	4M17A07276	AXFP	1**
<b>Front VGA port</b>			
ThinkSystem SR530/SR630 Front VGA Connector (for 3.5" models)	None***	AUWU	1
ThinkSystem SR530/SR570/SR630 Front VGA Connector Upgrade Kit (for 2.5" models)	7Z17A02579	AUWW	1

^ Field upgrade only.

\* The CMA Upgrade Kit for Tool-less Slide Rail is supported with the Tool-less Slide Rail (7M27A05702) only.

\*\* The CMA Upgrade Kit for Screw-in Slide Rail is supported with the Screw-in Slide Rail (4M17A07274) only.

\*\*\* Factory-installed only; no field upgrade.

The following table summarizes the rail kit features and specifications.

Table 41. Rail kit features and specifications summary

Feature	Tool-less Slide Rail		Screw-in Slide Rail		Tool-less Friction Rail
	Without CMA	With CMA	Without CMA	With CMA	
Part number	7M27A05702	7M27A05701	4M17A07274	4M17A07281	4M17A07273
CMA	7M27A05699	Included	4M17A07276	Included	No support
Rail length	730 mm (28.74 in.)	807 mm (31.8 in.)	836.8 mm (32.9 in.)	836.8 mm (32.9 in.)	728.1 mm (28.7 in.)
Rail type	Full-out slide (ball bearing)		Full-out slide (ball bearing)		Half-out slide (friction)
Tool-less installation	Yes		No		Yes
In-rack server maintenance	Yes		Yes		No
1U PDU support	Yes		Yes		Yes
0U PDU support	Limited*		Limited*		Limited**
Rack type	IBM and Lenovo 4-post, IEC standard-compliant		IBM and Lenovo 4-post, IEC standard-compliant		IBM and Lenovo 4-post, IEC standard-compliant
Mounting holes	Square or round		Square, round, or threaded		Square or round
Mounting flange thickness	2 mm (0.08 in.) – 3.3 mm (0.13 in.)		2 mm (0.08 in.) – 3.3 mm (0.13 in.)		2 mm (0.08 in.) – 3.3 mm (0.13 in.)
Distance between front and rear mounting flanges^	609.6 mm (24 in.) – 863.6 mm (34 in.)		609.6 mm (24 in.) – 812.8 mm (32 in.)		609.6 mm (24 in.) – 863.6 mm (34 in.)

\* If a 0U PDU is used, the rack cabinet must be at least 1100 mm (43.31 in.) deep if no CMA is used, or at least 1200 mm (47.24 in.) deep if a CMA is used.

\*\* If a 0U PDU used, the rack must be at least 1000 mm (39.37 in.) deep.

^ Measured when mounted on the rack, from the front surface of the front mounting flange to the rear most point of the rail.

## Operating systems

The SR530 server supports the following operating systems:

- Microsoft:
  - Microsoft Windows Server, version 1803
  - Microsoft Windows Server, version 1709
  - Microsoft Windows Server 2019
  - Microsoft Windows Server 2016
  - Microsoft Windows Server 2012 R2
- Red Hat:
  - Red Hat Enterprise Linux 8
  - Red Hat Enterprise Linux 7.6
  - Red Hat Enterprise Linux 7.5
  - Red Hat Enterprise Linux 7.4
  - Red Hat Enterprise Linux 7.3
  - Red Hat Enterprise Linux 6.10
  - Red Hat Enterprise Linux 6.9
- SUSE:
  - SUSE Linux Enterprise Server 15
  - SUSE Linux Enterprise Server 12 SP4
  - SUSE Linux Enterprise Server 12 SP3
  - SUSE Linux Enterprise Server 12 SP2
  - SUSE Linux Enterprise Server 11 for AMD64/EM64T SP4
- VMware:
  - VMware vSphere 6.7 (ESXi) Update 2
  - VMware vSphere 6.7 (ESXi) Update 1
  - VMware vSphere 6.7 (ESXi)
  - VMware vSphere 6.5 (ESXi) Update 2
  - VMware vSphere 6.5 (ESXi) Update 1
  - VMware vSphere 6.5 (ESXi)
  - VMware vSphere 6.0 (ESXi) Update 3

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

For the latest information about the specific versions and service levels that are supported and any other prerequisites, see the Operating System Interoperability Guide: <http://lenovopress.com/osig>.

## Physical specifications

The SR530 server has the following dimensions and weight (approximate):

- Height: 43 mm (1.7 in)
- Width: 434 mm (17.1 in)
- Depth: 715 mm (28.1 in)
- Weight:
  - Minimum configuration: 10.2 kg (22.5 lb)
  - Maximum configuration: 16.0 kg (35.3 lb)

## Operating environment

The SR530 server complies with ASHRAE class A2 specifications. The server performance might be impacted when the operating temperature is outside the ASHRAE A2 specifications. Depending on the hardware configuration, some server models comply with ASHRAE class A3 and class A4 specifications. To comply with ASHRAE class A3 and class A4 specifications, the server models must meet the following hardware configuration requirements at the same time:

- Two power supplies must be installed
- No system fan fails

The SR530 server is supported in the following environment:

- Air temperature:
  - Operating:
    - ASHRAE Class A4: 5 °C - 45 °C (41 °F - 113 °F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 °C for every 125-m (410-ft) increase in altitude
    - ASHRAE Class A3: 5 °C - 40 °C (41 °F - 104 °F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 °C for every 175-m (574-ft) increase in altitude
    - ASHRAE Class A2: 10 °C - 35 °C (50 °F - 95 °F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 °C for every 300-m (984-ft) increase in altitude
  - Non-operating: 5 °C - 45 °C (41 °F - 113 °F)
  - Storage: -40 °C - +60 °C (-40 °F - 140 °F)
- Maximum altitude: 3,050 m (10,000 ft)
- Humidity:
  - Operating:
    - ASHRAE Class A4: 8% - 90% (non-condensing); maximum dew point: 24 °C (75 °F)
    - ASHRAE Class A3: 8% - 85% (non-condensing); maximum dew point: 24 °C (75 °F)
    - ASHRAE Class A2: 8% - 80% (non-condensing); maximum dew point: 21 °C (70 °F)
  - Storage: 8% - 90% (non-condensing)
- Electrical:
  - 100 - 127 (nominal) V AC; 50 Hz / 60 Hz
  - 200 - 240 (nominal) V AC; 50 Hz / 60 Hz
  - 180 - 300 V DC (HVDC; supported in PRC only)
- Acoustics:
  - Minimum configuration:
    - Operating: 5.0 bels
    - Idle: 4.5 bels
  - Maximum configuration:
    - Operating: 5.5 bels
    - Idle: 5.2 bels
- Vibration:
  - Operating: 0.21 G rms at 5 Hz to 500 Hz for 15 minutes across 3 axes
  - Non-operating: 1.04 G rms at 2 Hz to 200 Hz for 15 minutes across 6 surfaces
- Shock:
  - Operating: 15 G for 3 milliseconds in each direction (positive and negative X, Y, and Z axes)
  - Non-operating:
    - 12 kg - 22 kg: 50 G for 152 in./sec velocity change across 6 surfaces
    - 23 kg - 31 kg: 35 G for 152 in./sec velocity change across 6 surfaces

The following table lists the maximum system power load, rated inlet current, and system heat output based on the power supply and source voltage.

Table 42. Rated system power, inlet current, and system heat output

Power supply	Source voltage	Maximum power load per system (two power supplies)	Rated current per inlet	System heat output
550W Platinum	100 - 127 V AC	722 W	6.2 A	2463 BTU/hour
	200 - 240 V AC	704 W	3 A	2402 BTU/hour
	180 - 300 V DC	702 W	2.5 A	2395 BTU/hour
750W Platinum	100 - 127 V AC	984 W	8.4 A	3357 BTU/hour
	200 - 240 V AC	958 W	4.1 A	3269 BTU/hour
	180 - 300 V DC	958 W	3.5 A	3269 BTU/hour
750W Titanium	200 - 240 V AC	949 W	4.1 A	3238 BTU/hour
	180 - 300 V DC	948 W	3.5 A	3235 BTU/hour

## Warranty and support

The SR530 server has a one-year (7X07) or three-year (Machine Type 7X08) customer-replaceable unit (CRU) and onsite limited (for field-replaceable units [FRUs] only) warranty with standard call center support during normal business hours and 9x5 Next Business Day Parts Delivered.

Lenovo's additional support services provide a sophisticated, unified support structure for a customer's data center, with an experience consistently ranked number one in customer satisfaction worldwide.

The following Lenovo support services are available:

- **Premier Support** provides a Lenovo-owned customer experience and delivers direct access to technicians skilled in hardware, software, and advanced troubleshooting, in addition to the following capabilities:
  - Direct technician-to-technician access through a dedicated phone line.
  - 24x7x365 remote support.
  - Single point of contact service.
  - End to end case management.
  - 3rd Party collaborative software support.
  - Online case tools and live chat support.
  - On-demand remote system analysis.
- **Warranty Upgrades (Preconfigured Support)** are available to meet the on-site response time targets that match the criticality of customer's systems:
  - 3, 4, or 5 years of service coverage.
  - 1-year or 2-year post-warranty extensions.
  - **Foundation Service:** 9x5 service coverage with next business day onsite response, with optional YourDrive YourData.
  - **Essential Service:** 24x7 service coverage with 4-hour onsite response or 24-hour committed repair (available only in select countries), bundled with YourDrive YourData.
  - **Advanced Service:** 24x7 service coverage with 2-hour onsite response or 6-hour committed repair (available only in select countries), bundled with YourDrive YourData.
- **Managed Services**

Lenovo Managed Services provide continuous 24x7 remote monitoring (plus 24x7 call center availability) and proactive management of a customer's data center using state of the art tools, systems, and practices by a team of highly skilled and experienced Lenovo services professionals.

Quarterly reviews check error logs, verify firmware and operating system device driver levels, and software as needed. Lenovo will also maintain records of latest patches, critical updates, and firmware levels, to ensure customer's systems are providing business value through optimized performance.
- **Technical Account Management (TAM)**

A Lenovo Technical Account Manager helps customers optimize operations of their data centers based on a deep understanding of customer's business. Customers gain direct access to a Lenovo TAM, who serves as their single point of contact to expedite service requests, provide status updates, and furnish reports to track incidents over time. Also, a TAM helps proactively make service recommendations and manage service relationship with Lenovo to make certain that customer's needs are met.
- **Enterprise Server Software Support**

Lenovo Enterprise Server Software Support is an additional support service that provides customers with software support on Microsoft, Red Hat, SUSE, and VMWare applications and systems. Around the clock availability for critical problems plus unlimited calls and incidents helps customers address challenges fast, without incremental costs. Support staff can answer troubleshooting and diagnostic questions, address product compatibility and interoperability issues, isolate causes of problems, report defects to software vendors, and more.
- **YourDrive YourData**

Lenovo's YourDrive YourData service is a multi-drive retention offering that ensures that customer's data is always under their control, regardless of the number of drives that are installed in their Lenovo server. In the unlikely event of a drive failure, customers retain possession of their drive while Lenovo replaces the failed drive part. Customer's data stays safely on customer premises, in their hands. The YourDrive YourData service can be purchased in convenient bundles with Foundation, Essential, or Advanced Service upgrades and extensions.

- **Health Check**

Having a trusted partner who can perform regular and detailed health checks is central to maintaining efficiency and ensuring that customer systems and business are always running at their best. Health Check supports Lenovo-branded server, storage, and networking devices, as well as select Lenovo-supported products from other vendors that are sold by Lenovo or a Lenovo-Authorized Reseller.

Some countries might have different warranty terms and conditions than the standard warranty. This is due to local business practices or laws in the specific country. Local service teams can assist in explaining country-specific terms when needed. Examples of country-specific warranty terms are second or longer business day parts delivery or parts-only base warranty.

If warranty terms and conditions include onsite labor for repair or replacement of parts, Lenovo will dispatch a service technician to the customer site to perform the replacement. Onsite labor under base warranty is limited to labor for replacement of parts that have been determined to be field-replaceable units (FRUs). Parts that are determined to be customer-replaceable units (CRUs) do not include onsite labor under base warranty.

If warranty terms include parts-only base warranty, Lenovo is responsible for delivering only replacement parts that are under base warranty (including FRUs) that will be sent to a requested location for self-service. Parts-only service does not include a service technician being dispatched onsite. Parts must be changed at customer's own cost and labor and defective parts must be returned following the instructions supplied with the spare parts.

Lenovo support services are country-specific. Not all support services are available in every country. For information about Lenovo support services that are available in a specific country or area, refer to the following resources:

- Service part numbers in Data Center Solution Configurator (DCSC):  
<http://dcsc.lenovo.com/#/services>
- Lenovo Services Availability Locator  
<https://lenovolocator.com/>

For service definitions, country-specific details, and service limitations, refer to the following documents:

- Lenovo Statement of Limited Warranty for Data Center Group (DCG) Servers and System Storage  
<http://pcsupport.lenovo.com/us/en/solutions/ht503310>
- Lenovo Data Center Services Agreement  
<http://support.lenovo.com/us/en/solutions/ht116628>

## Services

Lenovo Services is a dedicated partner to customer success. Lenovo's goal for customers is to reduce capital outlays, mitigate IT risks, and accelerate time to productivity.

Here is a more in-depth look at what Lenovo can do for their customers:

- **Asset Recovery Services**

Asset Recovery Services (ARS) helps customers recover the maximum value from their end-of-life equipment in a cost-effective and secure way. On top of simplifying the transition from old to new equipment, ARS mitigates environmental and data security risks associated with data center equipment disposal. Lenovo ARS is a cash-back solution for equipment based on its remaining market value, yielding maximum value from aging assets and lowering total cost of ownership for customers.

- **Assessment Services**

An assessment helps solve customer IT challenges through an onsite, multi-day session with a Lenovo technology expert. Lenovo performs a tools-based assessment which provides a comprehensive and thorough review of a company's environment and technology systems. In addition to the technology-based functional requirements, the consultant also discusses and records the non-functional business requirements, challenges, and constraints. Assessments help organizations, no matter how large or small, get a better return on their IT investment and overcome challenges in the ever-changing technology landscape.

- **Design Services**

Professional Services consultants perform infrastructure design and implementation planning to support customer's strategy. The high-level architectures provided by the assessment service are turned into low level designs and wiring diagrams, which are reviewed and approved prior to implementation. The implementation plan will demonstrate an outcome-based proposal to provide business capabilities through infrastructure with a risk-mitigated project plan.

- **Basic Hardware Installation**

Lenovo experts can seamlessly manage the physical installation of customer's server, storage, or networking hardware. Working at a time convenient for the customer (business hours or off shift), the technician will unpack and inspect the systems on customer site, install options, mount in a rack cabinet, connect to power and network, check and update firmware to the latest levels, verify operation, and dispose of the packaging, allowing customers to focus on other priorities.

- **Deployment Services**

When investing in new IT infrastructures, customers need to ensure that their business will see quick time to value with little to no disruption. Lenovo deployments are designed by development and engineering teams who know Lenovo products and solutions better than anyone else, and Lenovo technicians own the process from delivery to completion. Lenovo will conduct remote preparation and planning, configure and integrate systems, validate systems, verify and update appliance firmware, train on administrative tasks, and provide post-deployment documentation. Customer's IT teams leverage Lenovo skills to enable IT staff to transform with higher level roles and tasks.

- **Integration, Migration, and Expansion Services**

Integration, Migration, and Expansion Services allow to move existing physical and virtual workloads easily, or to determine technical requirements to support increased workloads while maximizing performance. These services include tuning, validation, and documenting ongoing run processes, and they leverage migration assessment planning documents to perform necessary migrations.

Some service options may not be available in every country. For more information about Lenovo service offerings that are available in a specific country or area, contact a local Lenovo sales representative or business partner.

## **Regulatory compliance**

The SR530 server conforms to the following regulations:

- United States FCC Part 15, Class A
- Canada ICES-003/NMB-03, Class A
- UL/CSA 60950-1
- Mexico NOM-019
- Argentina IEC60950-1
- Japan VCCI, Class A
- Australia/New Zealand AS/NZS CISPR 22, Class A
- China CCC GB4943.1, GB9254 Class A, GB17625.1
- Taiwan BSMI CNS13438, Class A; CNS14336-1
- Korea KN22, Class A; KN24
- Russia/GOST ME01; IEC-60950-1; GOST R 51318.22, 51318.24, 51317.3.2, and 51317.3.3
- IEC 60950-1 (CB Certificate and CB Test Report)
- Europe CE Mark (EN55022 Class A, EN60950-1, EN55024, EN61000-3-2, EN61000-3-3)
- CISPR 22, Class A
- Germany TUV-GS (EN60950-1/IEC60950-1, EK1-ITB2000)
- Reduction of Hazardous Substances (ROHS)
- Energy Star 2.1

## External drive enclosures

The following table lists the 12 Gbps SAS external drive enclosures that are offered by Lenovo that can be used with the SR530 for storage expansion.

**Note:** Information provided in this section is for ordering reference purposes only. For the operating system and adapter support details, refer to the interoperability matrix for a particular storage enclosure that can be found on the Lenovo Data Center Support web site:

<http://datacentersupport.lenovo.com>

Table 43. External drive enclosures

Description	Part number		
	Worldwide	Japan	PRC
Lenovo Storage D1212 LFF Disk Expansion with Dual SAS IO Modules	4587A11	4587A1J	4587A1C
Lenovo Storage D1224 SFF Disk Expansion with Dual SAS IO Modules	4587A31	4587A3J	4587A3C
Lenovo Storage D3284 4TB x 84 HD Expansion Enclosure	641311F		
Lenovo Storage D3284 6TB x 84 HD Expansion Enclosure	641312F		
Lenovo Storage D3284 8TB x 84 HD Expansion Enclosure	641313F		
Lenovo Storage D3284 10TB x 84 HD Expansion Enclosure	641314F		

For details about supported drives, adapters, and cables, see the following Lenovo Press Product Guides:

- Lenovo Storage D1212 and D1224  
<http://lenovopress.com/lp0512>
- Lenovo Storage D3284  
<http://lenovopress.com/lp0513>

## External storage systems

The following table lists the external storage systems that are currently offered by Lenovo that can be used with the SR530 in IT solutions.

**Note:** Information provided in this section is for ordering reference purposes only. End-to-end storage configuration support *must* be verified through the interoperability matrix for a particular storage system that can be found on the Lenovo Data Center Support web site:

<http://datacentersupport.lenovo.com>

Table 44. External storage systems: DE Series

Description	Part number	
	Worldwide	Japan
Lenovo ThinkSystem DE Series Storage (SAS connectivity)		
Lenovo ThinkSystem DE2000H SAS Hybrid Flash Array LFF	7Y70A000WW	7Y701003JP
Lenovo ThinkSystem DE2000H SAS Hybrid Flash Array SFF	7Y71A000WW	7Y711003JP
Lenovo ThinkSystem DE4000H SAS Hybrid Flash Array 4U60	7Y77A002WW	7Y771000JP
Lenovo ThinkSystem DE4000H SAS Hybrid Flash Array LFF	7Y74A000WW	7Y74A000JP
Lenovo ThinkSystem DE4000H SAS Hybrid Flash Array SFF	7Y75A000WW	7Y75A000JP
Lenovo ThinkSystem DE4000F SAS All Flash Array SFF	7Y76A000WW	7Y76A000JP
Lenovo ThinkSystem DE6000H SAS Hybrid Flash Array 4U60	7Y80A000WW	7Y801002JP
Lenovo ThinkSystem DE6000H SAS Hybrid Flash Array SFF	7Y78A000WW	7Y781002JP
Lenovo ThinkSystem DE6000F SAS All Flash Array SFF	7Y79A000WW	7Y79A000JP
Lenovo ThinkSystem DE Series Storage (iSCSI connectivity)		
Lenovo ThinkSystem DE2000H 10GBASE-T Hybrid Flash Array LFF	7Y70A003WW	7Y701001JP
Lenovo ThinkSystem DE2000H 10GBASE-T Hybrid Flash Array SFF	7Y71A002WW	7Y711005JP
Lenovo ThinkSystem DE2000H iSCSI Hybrid Flash Array LFF	7Y70A004WW	7Y701000JP
Lenovo ThinkSystem DE2000H iSCSI Hybrid Flash Array SFF	7Y71A003WW	7Y711006JP
Lenovo ThinkSystem DE4000H iSCSI Hybrid Flash Array 4U60	7Y77A000WW	7Y771002JP
Lenovo ThinkSystem DE4000H iSCSI Hybrid Flash Array LFF	7Y74A002WW	7Y74A002JP
Lenovo ThinkSystem DE4000H iSCSI Hybrid Flash Array SFF	7Y75A001WW	7Y75A001JP
Lenovo ThinkSystem DE4000F iSCSI All Flash Array SFF	7Y76A002WW	7Y76A002JP
Lenovo ThinkSystem DE6000H iSCSI Hybrid Flash Array 4U60	7Y80A002WW	7Y801000JP
Lenovo ThinkSystem DE6000H iSCSI Hybrid Flash Array SFF	7Y78A002WW	7Y781000JP
Lenovo ThinkSystem DE6000F iSCSI All Flash Array SFF	7Y79A002WW	7Y79A002JP
Lenovo ThinkSystem DE Series Storage (FC connectivity)		
Lenovo ThinkSystem DE2000H FC Hybrid Flash Array LFF	7Y70A002WW	7Y701002JP
Lenovo ThinkSystem DE2000H FC Hybrid Flash Array SFF	7Y71A001WW	7Y711004JP
Lenovo ThinkSystem DE4000H FC Hybrid Flash Array 4U60	7Y77A001WW	7Y771001JP
Lenovo ThinkSystem DE4000H FC Hybrid Flash Array LFF	7Y74A001WW	7Y74A001JP
Lenovo ThinkSystem DE4000H FC Hybrid Flash Array SFF	7Y75A002WW	7Y75A002JP
Lenovo ThinkSystem DE4000F FC All Flash Array SFF	7Y76A001WW	7Y76A001JP
Lenovo ThinkSystem DE6000H FC Hybrid Flash Array 4U60	7Y80A001WW	7Y801001JP
Lenovo ThinkSystem DE6000H FC Hybrid Flash Array SFF	7Y78A001WW	7Y781001JP
Lenovo ThinkSystem DE6000F FC All Flash Array SFF	7Y79A001WW	7Y79A001JP

Table 45. External storage systems: DM Series

Description	Part number
Lenovo ThinkSystem DM Series Storage (iSCSI or FC connectivity)	
Lenovo ThinkSystem DM3000H Hybrid Storage Array (2U12 LFF, CTO only)	7Y42CTO1WW
Lenovo ThinkSystem DM3000H 48TB (12x 4TB HDDs) (Universal SFP+)	7Y420001EA*
Lenovo ThinkSystem DM3000H 48TB (12x 4TB HDDs) (10GBASE-T)	7Y420002EA*
Lenovo ThinkSystem DM5000H Hybrid Storage Array (2U24 SFF, CTO only)	7Y57CTO1WW
Lenovo ThinkSystem DM5000H 11.5TB (12x 960GB SSDs) (Universal SFP+)	7Y570001EA*
Lenovo ThinkSystem DM5000H 11.5TB (12x 960GB SSDs) (10GBASE-T)	7Y570002EA*
Lenovo ThinkSystem DM5000H 29TB (24x 1.2TB 10K HDDs) (Universal SFP+)	7Y570003EA*
Lenovo ThinkSystem DM5000H 29TB (24x 1.2TB 10K HDDs) (10GBASE-T)	7Y570004EA*
Lenovo ThinkSystem DM5000F Flash Storage Array (2U24 SFF, CTO only)	7Y41CTO1WW
Lenovo ThinkSystem DM7000H Hybrid Storage Array (3U, CTO only)	7Y56CTO1WW
Lenovo ThinkSystem DM7000F Flash Storage Array (3U, CTO only)	7Y40CTO1WW

\* Available only in EMEA.

Table 46. External storage systems: DS Series

Description	Part number		
	Worldwide	Japan	PRC
Lenovo ThinkSystem DS Series Storage (SAS connectivity)			
Lenovo ThinkSystem DS2200 LFF SAS Dual Controller Unit	4599A41	4599A4J	4599A4C
Lenovo ThinkSystem DS2200 SFF SAS Dual Controller Unit	4599A21	4599A2J	4599A2C
Lenovo ThinkSystem DS4200 LFF SAS Dual Controller Unit	4617A41	4617A4J	4617A4C
Lenovo ThinkSystem DS4200 SFF SAS Dual Controller Unit	4617A21	4617A2J	4617A2C
Lenovo ThinkSystem DS6200 SFF SAS Dual Controller Unit	4619A21	4619A2J	4619A2C
Lenovo ThinkSystem DS Series Storage (iSCSI or FC connectivity)			
Lenovo ThinkSystem DS2200 LFF FC/iSCSI Dual Controller Unit	4599A31	4599A3J	4599A3C
Lenovo ThinkSystem DS2200 SFF FC/iSCSI Dual Controller Unit	4599A11	4599A1J	4599A1C
Lenovo ThinkSystem DS4200 LFF FC/iSCSI Dual Controller Unit	4617A31	4617A3J	4617A3C
Lenovo ThinkSystem DS4200 SFF FC/iSCSI Dual Controller Unit	4617A11	4617A1J	4617A1C
Lenovo ThinkSystem DS6200 SFF FC/iSCSI Dual Controller Unit	4619A11	4619A1J	4619A1C
DS6200F 12x 400GB 10DWD SSDs, 1x 8Gb FC SFP, 512 Snapshots, Replication	4619A1F	4619J1F	4619C1F
DS6200F 12x 800GB 3DWD SSDs, 1x 8Gb FC SFP, 512 Snapshots, Replication	4619A2F	4619J2F	4619C2F
DS6200F 12x 1.6TB 3DWD SSDs, 1x 8Gb FC SFP, 512 Snapshots, Replication	4619A3F	4619J3F	4619C3F
DS6200F 12x 3.84TB 1DWD SSDs, 1x 8Gb FC SFP, 512 Snapshots, Replication	4619A4F	4619J4F	4619C4F

Table 47. External storage systems: V Series and Storwize for Lenovo

Description	Part number
Lenovo Storage V Series (SAS [except V7000/V7000F], iSCSI, or FC connectivity)	
Lenovo Storage V3700 V2 LFF Control Enclosure	6535C1D
Lenovo Storage V3700 V2 SFF Control Enclosure	6535C2D
Lenovo Storage V3700 V2 XP LFF Control Enclosure	6535C3D
Lenovo Storage V3700 V2 XP SFF Control Enclosure	6535C4D
Lenovo Storage V5030 LFF Control Enclosure 3Yr S&S	6536C12
Lenovo Storage V5030 LFF Control Enclosure 5Yr S&S	6536C32
Lenovo Storage V5030 SFF Control Enclosure 3Yr S&S	6536C22
Lenovo Storage V5030 SFF Control Enclosure 5Yr S&S	6536C42
Lenovo Storage V5030F SFF Control Enclosure 3Yr S&S	6536B1F
Lenovo Storage V5030F SFF Control Enclosure 5Yr S&S	6536B2F
Lenovo Storage V7000 SFF Control Enclosure 3Yr S&S PRC	6538R11^
Lenovo Storage V7000 SFF Control Enclosure 5Yr S&S PRC	6538R21^
Lenovo Storage V7000F SFF Control Enclosure 3Yr S&S PRC	6538R1G^
Lenovo Storage V7000F SFF Control Enclosure 5Yr S&S PRC	6538R2G^
IBM Storwize for Lenovo (iSCSI or FC connectivity)	
IBM Storwize V7000 SFF Control Enclosure, 3YR SWMA	6195C32†
IBM Storwize V7000 SFF Control Enclosure, 3YR SWMA, LA	6195C3L‡
IBM Storwize V7000 SFF Control Enclosure, 5YR SWMA	6195C52†
IBM Storwize V7000 SFF Control Enclosure, 5YR SWMA, LA	6195C5L‡

^ Available only in PRC.

† Available worldwide except Latin America.

‡ Available only in Latin America.

For more information, see the list of Product Guides in the following categories:

- Lenovo DE Series, DM Series, DS Series, and V Series storage:  
<http://lenovopress.com/storage/san/lenovo#rt=product-guide>
- IBM Storwize for Lenovo storage:  
<http://lenovopress.com/storage/san/ibm#rt=product-guide>

## External backup units

The following table lists the external backup options that are offered by Lenovo that can be used with the ThinkSystem SR530 for backup solutions.

**Note:** Information provided in this section is for ordering reference purposes only. End-to-end LTO Ultrium configuration support for a particular tape backup unit *must* be verified through the System Storage Interoperation Center (SSIC):

<http://www.ibm.com/systems/support/storage/ssic>

Table 48. External backup options

Description	Part number
External RDX USB drives	
ThinkSystem RDX External USB 3.0 Dock	4T27A10725
External SAS tape backup drives	
IBM TS2260 Tape Drive Model H6S	6160S6E
IBM TS2270 Tape Drive Model H7S	6160S7E
IBM TS2280 Tape Drive Model H8S	6160S8E
External SAS tape backup autoloaders	
IBM TS2900 Tape Autoloader w/LTO6 HH SAS	6171S6R
IBM TS2900 Tape Autoloader w/LTO7 HH SAS	6171S7R
IBM TS2900 Tape Autoloader w/LTO8 HH SAS	6171S8R
External tape backup libraries	
IBM TS4300 3U Tape Library-Base Unit	6741A1F
SAS backup drives for TS4300 Tape Library	
LTO 6 HH SAS Drive	01KP934
LTO 7 HH SAS Drive	01KP937
LTO 8 HH SAS Drive	01KP953
Fibre Channel backup drives for TS4300 Tape Library	
LTO 6 FH Fibre Channel Drive	01KP935
LTO 6 HH Fibre Channel Drive	01KP933
LTO 7 FH Fibre Channel Drive	01KP938
LTO 7 HH Fibre Channel Drive	01KP936
LTO 8 FH Fibre Channel Drive	01KP954
LTO 8 HH Fibre Channel Drive	01KP952

For more information, see the list of Product Guides in the Backup units category:

<http://lenovopress.com/servers/options/backup#rt=product-guide>

## Ethernet LAN switches

The following table lists the Ethernet LAN switches that are offered by Lenovo that can be used with the ThinkSystem SR530 for network connectivity.

Table 49. Ethernet LAN switches

Description	Part number
<b>1 Gb Ethernet switches</b>	
Lenovo ThinkSystem NE0152T RackSwitch (Rear to Front)	7Y810011WW
Lenovo ThinkSystem NE0152TO RackSwitch (Rear to Front, ONIE)	7Z320011WW
Lenovo RackSwitch G7028 (Rear to Front)	7159BAX
Lenovo RackSwitch G7052 (Rear to Front)	7159CAX
Lenovo CE0128TB Switch (3-Year Warranty)	7Z340011WW
Lenovo CE0128TB Switch (Limited Lifetime Warranty)	7Z360011WW
Lenovo CE0128PB Switch (3-Year Warranty)	7Z340012WW
Lenovo CE0128PB Switch (Limited Lifetime Warranty)	7Z360012WW
Lenovo CE0152TB Switch (3-Year Warranty)	7Z350021WW
Lenovo CE0152TB Switch (Limited Lifetime Warranty)	7Z370021WW
Lenovo CE0152PB Switch (3-Year Warranty)	7Z350022WW
Lenovo CE0152PB Switch (Limited Lifetime Warranty)	7Z370022WW
Juniper EX2300-C PoE Switch	7165H1X
Juniper EX2300-24p PoE Switch	7165H2X
<b>10 Gb Ethernet switches</b>	
Lenovo ThinkSystem NE1032 RackSwitch (Rear to Front)	7159A1X
Lenovo ThinkSystem NE1032T RackSwitch (Rear to Front)	7159B1X
Lenovo ThinkSystem NE1072T RackSwitch (Rear to Front)	7159C1X
Lenovo RackSwitch G8272 (Rear to Front)	7159CRW
Lenovo RackSwitch G8296 (Rear to Front)	7159GR6
<b>25 Gb Ethernet switches</b>	
Lenovo ThinkSystem NE2572 RackSwitch (Rear to Front)	7159E1X
Lenovo ThinkSystem NE2572O RackSwitch (Rear to Front, ONIE)	7Z210021WW
<b>100 Gb Ethernet switches</b>	
Lenovo ThinkSystem NE10032 RackSwitch (Rear to Front)	7159D1X
Lenovo ThinkSystem NE10032O RackSwitch (Rear to Front, ONIE)	7Z210011WW

For more information, see the list of Product Guides in the Top-of-rack Switches category:  
<http://lenovopress.com/servers/options/switches#rt=product-guide>

## Fibre Channel SAN switches

The following table lists currently available Fibre Channel SAN switches that are offered by Lenovo that can be used with the ThinkSystem SR530 for external FC SAN storage connectivity.

Table 50. Fibre Channel SAN switches

Description	Part number
<b>8 Gb FC</b>	
Lenovo B300, 8 ports licensed, 8x 8Gb SWL SFPs, 1 PS, Rail Kit, 3Yr FW	3873AR3
Lenovo B300, E_Port License, 8 ports licensed, 8x 8Gb SWL SFPs, 1 PS, Rail Kit, 1Yr FW	3873AR6
<b>16 Gb FC</b>	
Lenovo ThinkSystem DB610S, 8 ports licensed, 8x 16Gb SWL SFPs, 1 PS, Rail Kit, 1Yr FW	6559F2A
Lenovo ThinkSystem DB610S, ENT Bundle, 24 ports licensed, 24x 16Gb SWL SFPs, 1 PS, Rail Kit, 1Yr FW	6559F1A
Lenovo ThinkSystem DB620S, 24 ports licensed, 24x 16Gb SWL SFPs, 2 PS, Rail Kit, 1Yr FW	6415J1A
Lenovo B6505, 12 ports licensed, 12x 16Gb SWL SFPs, 1 PS, Rail Kit, 1Yr FW	3873ER1
Lenovo B6510, 24 ports licensed, 24x 16Gb SWL SFPs, 2 PS, Rail Kit, 1Yr FW	3873IR1
Lenovo B6510, 24 ports licensed, 24x 16Gb SWL SFPs, 2 PS, Rail Kit, 3Yr FW	3873BR3
<b>32 Gb FC</b>	
Lenovo ThinkSystem DB610S, 8 ports licensed, No SFPs, 1 PS, Rail Kit, 1Yr FW	6559F3A
Lenovo ThinkSystem DB610S, 8 ports licensed, No SFPs, 1 PS, Rail Kit, 3Yr FW	6559D3Y
Lenovo ThinkSystem DB620S, 24 ports licensed, No SFPs, 2 PS, Rail Kit, 1Yr FW	6415G3A
Lenovo ThinkSystem DB620S, 24 ports licensed, 24x 32Gb SWL SFPs, 2 PS, Rail Kit, 1Yr FW	6415H11
Lenovo ThinkSystem DB620S, ENT Bundle, 48 ports licensed, 48x 32Gb SWL SFPs, 2 PS, Rail Kit, 1Yr FW	6415H2A
Lenovo ThinkSystem DB400D 32Gb FC Director, ENT. Feature set, 4 Blade slots, 8U, 1Yr FW	6684D2A
Lenovo ThinkSystem DB400D 32Gb FC Director, ENT. Feature set, 4 Blade slots, 8U, 3Yr FW	6684B2A
Lenovo ThinkSystem DB800D 32Gb FC Director, ENT. Feature set, 8 Blade slots, 14U, 1Yr FW	6682D1A

For more information, see the list of Product Guides in the Rack SAN Switches category:

<http://lenovopress.com/storage/switches/rack#rt=product-guide>

## Rack cabinets

The following table lists the rack cabinets that are currently offered by Lenovo that can be used for mounting the ThinkSystem SR530 and other IT infrastructure building blocks.

Table 51. Rack cabinets

Description	Part number
25U S2 Standard Rack (1000 mm deep; 2 sidewall compartments)	93072RX
25U Static S2 Standard Rack (1000 mm deep; 2 sidewall compartments)	93072PX
42U S2 Standard Rack (1000 mm deep; 6 sidewall compartments)	93074RX
42U 1100mm Enterprise V2 Dynamic Rack (6 sidewall compartments)	93634PX
42U 1100mm Enterprise V2 Dynamic Expansion Rack (6 sidewall compartments)	93634EX
42U 1200mm Deep Dynamic Rack (6 sidewall compartments)	93604PX
42U 1200mm Deep Static Rack (6 sidewall compartments)	93614PX
42U Enterprise Rack (1105 mm deep; 4 sidewall compartments)	93084PX
42U Enterprise Expansion Rack (1105 mm deep; 4 sidewall compartments)	93084EX

For more information, see the list of Product Guides in the Rack cabinets category:  
<http://lenovopress.com/servers/options/racks#rt=product-guide>

## KVM switches and consoles

The following table lists the KVM switches and consoles that are offered by Lenovo that can be used for providing console access to the ThinkSystem SR530.

Table 52. KVM switch and console options

Description	Part number
Consoles	
1U 18.5" Standard Console (without keyboard)	17238BX
Console keyboards	
ThinkSystem Keyboard w/ Int. Pointing Device USB - Arabic 253 RoHS v2	7ZB7A05469
ThinkSystem Keyboard w/ Int. Pointing Device USB - Belg/UK 120 RoHS v2	7ZB7A05468
ThinkSystem Keyboard w/ Int. Pointing Device USB - Czech 489 RoHS v2	7ZB7A05206
ThinkSystem Keyboard w/ Int. Pointing Device USB - Danish 159 RoHS v2	7ZB7A05207
ThinkSystem Keyboard w/ Int. Pointing Device USB - Dutch 143 RoHS v2	7ZB7A05208
ThinkSystem Keyboard w/ Int. Pointing Device USB - Fr/Canada 445 RoHS v2	7ZB7A05210
ThinkSystem Keyboard w/ Int. Pointing Device USB - French 189 RoHS v2	7ZB7A05209
ThinkSystem Keyboard w/ Int. Pointing Device USB - German 129 RoHS v2	7ZB7A05211
ThinkSystem Keyboard w/ Int. Pointing Device USB - Greek 219 RoHS v2	7ZB7A05212
ThinkSystem Keyboard w/ Int. Pointing Device USB - Hebrew 212 RoHS v2	7ZB7A05213
ThinkSystem Keyboard w/ Int. Pointing Device USB - Hungarian 208 RoHS v2	7ZB7A05214
ThinkSystem Keyboard w/ Int. Pointing Device USB - Italian 141 RoHS v2	7ZB7A05215
ThinkSystem Keyboard w/ Int. Pointing Device USB - Japanese 194 RoHS v2	7ZB7A05216
ThinkSystem Keyboard w/ Int. Pointing Device USB - Korean 413 RoHS v2	7ZB7A05217
ThinkSystem Keyboard w/ Int. Pointing Device USB - LA Span 171 RoHS v2	7ZB7A05218
ThinkSystem Keyboard w/ Int. Pointing Device USB - Norwegian 155 RoHS v2	7ZB7A05219
ThinkSystem Keyboard w/ Int. Pointing Device USB - Polish 214 RoHS v2	7ZB7A05220

<b>Description</b>	<b>Part number</b>
ThinkSystem Keyboard w/ Int. Pointing Device USB - Portugese 163 RoHS v2	7ZB7A05221
ThinkSystem Keyboard w/ Int. Pointing Device USB - Russian 441 RoHS v2	7ZB7A05222
ThinkSystem Keyboard w/ Int. Pointing Device USB - Slovak 245 RoHS v2	7ZB7A05223
ThinkSystem Keyboard w/ Int. Pointing Device USB - Slovenian 234 RoHS v2	7ZB7A05231
ThinkSystem Keyboard w/ Int. Pointing Device USB - Spanish 172 RoHS v2	7ZB7A05224
ThinkSystem Keyboard w/ Int. Pointing Device USB - Swed/Finn 153 RoHS v2	7ZB7A05225
ThinkSystem Keyboard w/ Int. Pointing Device USB - Swiss F/G 150 RoHS v2	7ZB7A05226
ThinkSystem Keyboard w/ Int. Pointing Device USB - Thai 191 RoHS v2	7ZB7A05227
ThinkSystem Keyboard w/ Int. Pointing Device USB - Trad Chinese/US 467 RoHS v2	7ZB7A05467
ThinkSystem Keyboard w/ Int. Pointing Device USB - Turkish 179 RoHS v2	7ZB7A05228
ThinkSystem Keyboard w/ Int. Pointing Device USB - UK Eng 166 RoHS v2	7ZB7A05229
ThinkSystem Keyboard w/ Int. Pointing Device USB - US Eng 103P RoHS v2	7ZB7A05470
ThinkSystem Keyboard w/ Int. Pointing Device USB - US Euro 103P RoHS v2	7ZB7A05230
<b>Console switches and cables - ThinkSystem Digital KVM</b>	
ThinkSystem Digital 2x1x16 KVM Switch (DVI video output port)	1754D1T
ThinkSystem VGA to DVI Conversion Cable	4X97A11108
ThinkSystem Single-USB Conversion Cable for Digital KVM	4X97A11109
ThinkSystem Dual-USB Conversion Cable for Digital KVM	4X97A11107
<b>Console switches and cables - ThinkSystem Analog KVM</b>	
ThinkSystem Analog 1x8 KVM Switch (DVI video output port)	1754A1T
ThinkSystem VGA to DVI Conversion Cable	4X97A11108
ThinkSystem USB Conversion Cable for Analog KVM	4X97A11106
<b>Console switches and cables - Global Console Managers</b>	
Global 2x2x16 Console Manager (GCM16) (VGA video output port)	1754D1X
Global 4x2x32 Console Manager (GCM32) (VGA video output port)	1754D2X
Virtual Media Conversion Option Gen2 (VCO2)	46M5383
Serial Conversion Option (SCO)	46M5382
<b>Console switches and cables - Local Console Managers</b>	
Local 1x8 Console Manager (LCM8) (VGA video output port)	1754A1X
Local 2x16 Console Manager (LCM16) (VGA video output port)	1754A2X
Virtual Media Conversion Option Gen2 (VCO2)	46M5383

For more information, see the list of Product Guides in the KVM Switches and Consoles category:  
<http://lenovopress.com/servers/options/kvm#rt=product-guide>

## Power distribution units

The following table lists the power distribution units (PDUs) that are currently offered by Lenovo that can be used for distributing electrical power to the ThinkSystem SR530 and other IT infrastructure building blocks mounted in a rack cabinet.

Table 53. Power distribution units

Description	Part number
<b>0U Basic PDUs</b>	
0U 36 C13/6 C19 24A/200-240V 1 Phase PDU with NEMA L6-30P line cord	00YJ776
0U 36 C13/6 C19 32A/200-240V 1 Phase PDU with IEC60309 332P6 line cord	00YJ777
0U 21 C13/12 C19 32A/200-240V/346-415V 3 Phase PDU with IEC60309 532P6 line cord	00YJ778
0U 21 C13/12 C19 48A/200-240V 3 Phase PDU with IEC60309 460P9 line cord	00YJ779
<b>Switched and Monitored PDUs</b>	
0U 20 C13/4 C19 Switched and Monitored 24A/200-240V/1Ph PDU w/ NEMA L6-30P line cord	00YJ781
0U 20 C13/4 C19 Switched and Monitored 32A/200-240V/1Ph PDU w/ IEC60309 332P6 line cord	00YJ780
0U 18 C13/6 C19 Switched / Monitored 32A/200-240V/346-415V/3Ph PDU w/ IEC60309 532P6 cord	00YJ782
0U 12 C13/12 C19 Switched and Monitored 48A/200-240V/3Ph PDU w/ IEC60309 460P9 line cord	00YJ783
1U 9 C19/3 C13 Switched and Monitored DPI PDU (without line cord)	46M4002
1U 9 C19/3 C13 Switched and Monitored 60A 3Ph PDU with IEC 309 3P+Gnd cord	46M4003
1U 12 C13 Switched and Monitored DPI PDU (without line cord)	46M4004
1U 12 C13 Switched and Monitored 60A 3 Phase PDU with IEC 309 3P+Gnd line cord	46M4005
<b>Ultra Density Enterprise PDUs (9x IEC 320 C13 + 3x IEC 320 C19 outlets)</b>	
Ultra Density Enterprise C19/C13 PDU Module (without line cord)	71762NX
Ultra Density Enterprise C19/C13 PDU 60A/208V/3ph with IEC 309 3P+Gnd line cord	71763NU
<b>C13 Enterprise PDUs (12x IEC 320 C13 outlets)</b>	
DPI C13 Enterprise PDU+ (without line cord)	39M2816
DPI Single Phase C13 Enterprise PDU (without line cord)	39Y8941
<b>C19 Enterprise PDUs (6x IEC 320 C19 outlets)</b>	
DPI Single Phase C19 Enterprise PDU (without line cord)	39Y8948
DPI 60A 3 Phase C19 Enterprise PDU with IEC 309 3P+G (208 V) fixed line cord	39Y8923
<b>Front-end PDUs (3x IEC 320 C19 outlets)</b>	
DPI 30amp/125V Front-end PDU with NEMA L5-30P line cord	39Y8938
DPI 30amp/250V Front-end PDU with NEMA L6-30P line cord	39Y8939
DPI 32amp/250V Front-end PDU with IEC 309 2P+Gnd line cord	39Y8934
DPI 60amp/250V Front-end PDU with IEC 309 2P+Gnd line cord	39Y8940
DPI 63amp/250V Front-end PDU with IEC 309 2P+Gnd line cord	39Y8935
<b>Universal PDUs (7x IEC 320 C13 outlets)</b>	
DPI Universal 7 C13 PDU (with 2 m IEC 320-C19 to C20 rack power cord)	00YE443
<b>NEMA PDUs (6x NEMA 5-15R outlets)</b>	
DPI 100-127V PDU with fixed NEMA L5-15P line cord	39Y8905
<b>Line cords for PDUs that ship without a line cord</b>	
DPI 30a Line Cord (NEMA L6-30P)	40K9614
DPI 32a Line Cord (IEC 309 P+N+G)	40K9612
DPI 32a Line Cord (IEC 309 3P+N+G)	40K9611
DPI 60a Cord (IEC 309 2P+G)	40K9615

Description	Part number
DPI 63a Cord (IEC 309 P+N+G)	40K9613
DPI Australian/NZ 3112 Line Cord (32A)	40K9617
DPI Korean 8305 Line Cord (30A)	40K9618

For more information, see the list of Product Guides in the Power infrastructure category:  
<http://lenovopress.com/servers/options/pdu#rt=product-guide>

## Uninterruptible power supply units

The following table lists the uninterruptible power supply (UPS) units that are currently offered by Lenovo that can be used for providing electrical power protection to the ThinkSystem SR530 and other IT infrastructure building blocks.

Table 54. Uninterruptible power supply units

Description	Part number
Worldwide models	
RT1.5kVA 2U Rack or Tower UPS (100-125VAC) (8x NEMA5-15R 12A outlets)	55941AX
RT1.5kVA 2U Rack or Tower UPS (200-240VAC) (8x IEC 320 C13 10A outlets)	55941KX
RT2.2kVA 2U Rack or Tower UPS (100-125VAC) (8x NEMA 5-20R 16A outlets)	55942AX
RT2.2kVA 2U Rack or Tower UPS (200-240VAC) (8x IEC 320 C13 10A, 1x IEC 320 C19 16A outlets)	55942KX
RT3kVA 2U Rack or Tower UPS (100-125VAC) (6x NEMA 5-20R 16A, 1x NEMA L5-30R 24A outlets)	55943AX
RT3kVA 2U Rack or Tower UPS (200-240VAC) (8x IEC 320 C13 10A, 1x IEC 320 C19 16A outlets)	55943KX
RT5kVA 3U Rack or Tower UPS (200-240VAC) (8x IEC 320 C13 10A, 2x IEC 320 C19 16A outlets)	55945KX
RT6kVA 3U Rack or Tower UPS (200-240VAC) (8x IEC 320 C13 10A, 2x IEC 320 C19 16A outlets)	55946KX
RT8kVA 6U Rack or Tower UPS (200-240VAC) (4x IEC 320-C19 16A outlets)	55948KX
RT11kVA 6U Rack or Tower UPS (200-240VAC) (4x IEC 320-C19 16A outlets)	55949KX
RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC) (4x IEC 320-C19 16A outlets)	55948PX
RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC) (4x IEC 320-C19 16A outlets)	55949PX
ASEAN, HTK, INDIA, and PRC models	
ThinkSystem RT3kVA 2U Standard UPS (200-230VAC) (2x C13 10A, 2x GB 10A, 1x C19 16A outlets)	55943KT
ThinkSystem RT3kVA 2U Long Backup UPS (200-230VAC) (2x C13 10A, 2x GB 10A, 1x C19 16A outlets)	55943LT
ThinkSystem RT6kVA 5U UPS (200-230VAC) (2x C13 10A outlets, 1x Terminal Block output)	55946KT
ThinkSystem RT10kVA 5U UPS (200-230VAC) (2x C13 10A outlets, 1x Terminal Block output)	5594XKT

For more information, see the list of Product Guides in the Uninterruptible Power Supply Units category:  
<http://lenovopress.com/servers/options/ups#rt=product-guide>

## Lenovo Financial Services

Lenovo Financial Services reinforces Lenovo's commitment to deliver pioneering products and services that are recognized for their quality, excellence, and trustworthiness. Lenovo Financial Services offers financing solutions and services that complement your technology solution anywhere in the world.

We are dedicated to delivering a positive finance experience for customers like you who want to maximize your purchase power by obtaining the technology you need today, protect against technology obsolescence, and preserve your capital for other uses.

We work with businesses, non-profit organizations, governments and educational institutions to finance their entire technology solution. We focus on making it easy to do business with us. Our highly experienced team of finance professionals operates in a work culture that emphasizes the importance of providing outstanding customer service. Our systems, processes and flexible policies support our goal of providing customers with a positive experience.

We finance your entire solution. Unlike others, we allow you to bundle everything you need from hardware and software to service contracts, installation costs, training fees, and sales tax. If you decide weeks or months later to add to your solution, we can consolidate everything into a single invoice.

Our Premier Client services provide large accounts with special handling services to ensure these complex transactions are serviced properly. As a premier client, you have a dedicated finance specialist who manages your account through its life, from first invoice through asset return or purchase. This specialist develops an in-depth understanding of your invoice and payment requirements. For you, this dedication provides a high-quality, easy, and positive financing experience.

For your region specific offers please ask your Lenovo sales representative or your technology provider about the use of Lenovo Financial Services. For more information, see the following Lenovo website:

<http://www.lenovo.com/us/en/landingpage/lenovo-financial-services>

## Related publications and links

For more information, see these resources:

- Lenovo ThinkSystem SR530 product page  
<http://www3.lenovo.com/us/en/p/77XX7SR530>
- Lenovo Data Center Solution Configurator (DCSC):  
<http://dcsc.lenovo.com>
- *PSREF: Product Specifications Reference for ThinkSystem SR530*  
[http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem\\_SR530](http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR530)
- Lenovo Data Center Support Downloads - ThinkSystem SR530  
<http://datacentersupport.lenovo.com/products/servers/thinksystem/sr530/7x07/downloads>  
<http://datacentersupport.lenovo.com/products/servers/thinksystem/sr530/7x08/downloads>

## Related product families

Product families related to this document are the following:

- [2-Socket Rack Servers](#)
- [ThinkSystem SR530 Server](#)

## Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service. Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc.  
1009 Think Place - Building One  
Morrisville, NC 27560  
U.S.A.  
Attention: Lenovo Director of Licensing

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary. Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk. Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

**© Copyright Lenovo 2019. All rights reserved.**

This document, LP0639, was created or updated on June 11, 2019.

Send us your comments in one of the following ways:

- Use the online Contact us review form found at:  
<http://lenovopress.com/LP0639>
- Send your comments in an e-mail to:  
[comments@lenovopress.com](mailto:comments@lenovopress.com)

This document is available online at <http://lenovopress.com/LP0639>.

## Trademarks

Lenovo and the Lenovo logo are trademarks or registered trademarks of Lenovo in the United States, other countries, or both. A current list of Lenovo trademarks is available on the Web at <https://www.lenovo.com/us/en/legal/copytrade/>.

The following terms are trademarks of Lenovo in the United States, other countries, or both:

Bootable Media Creator  
Flex System  
Lenovo Services  
Lenovo XClarity  
Lenovo®  
RackSwitch  
System x®  
ThinkSystem  
TopSeller  
TruDDR4  
UpdateXpress System Packs

The following terms are trademarks of other companies:

Intel® and Xeon® are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Linux® is a trademark of Linus Torvalds in the United States, other countries, or both.

Hyper-V®, Microsoft®, PowerShell, Windows PowerShell®, Windows Server®, and Windows® are trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.