Lenovo ThinkSystem SR530 2 Socket 1U Rack Server User Guide

Contents

Lenovo ThinkSystem SR530 2 Socket 1U Rack Server

Specifications

- **Processor:** Intel Xeon Processor Scalable Family (Xeon SP Gen 1 / Gen 2)
- **Form Factor:** 1U rack server
- **Memory:** Up to 768 GB of 2933 MHz TruDDR4 memory
- **Drive Bays:** 8x 2.5-inch or 4x 3.5-inch
- **RAID:** Basic software RAID or advanced hardware RAID protection
- **Networking:** Embedded LOM, selectable LOM, ML2, and PCIe network adapters
- **I/O Expansion:** LOM slot and up to 3x PCIe slots
- **Power Supplies:** 80 PLUS Titanium and Platinum redundant power supplies

Product Usage Instructions

Installation and Setup

To install and set up the Lenovo ThinkSystem SR530 Server, follow these steps:

1. Choose a suitable location for the server in a well-ventilated area.
2. Connect the server to a power source using the provided power cables.
3. Connect the server to a network using the appropriate network cables.
4. If required, install additional processors, memory modules, and storage drives in the available slots.
5. Power on the server and follow the on-screen instructions to complete the initial setup.

Configuration and Management

The Lenovo ThinkSystem SR530 Server offers comprehensive configuration and management options. Follow these steps to configure and manage the server:

1. Access the Lenovo XClarity Controller, which is built into the server, to perform advanced service processor control, monitoring, and alerting functions.
2. Use the provided software RAID or advanced hardware RAID options to configure data protection for your storage drives.
3. Utilize the available networking options, such as embedded LOM, selectable LOM, ML2, and PCIe network adapters, to establish network connectivity.
4. If required, expand the I/O capabilities of the server by installing additional PCIe cards in the available slots.

FAQ

Q: What is the maximum memory capacity of the Lenovo ThinkSystem SR530 Server?

- **A:** The server supports up to 768 GB of 2933 MHz TruDDR4 memory.

Q: How many drive bays does the server have?

- **A:** The server has either 8x 2.5-inch or 4x 3.5-inch drive bays.

Q: What are the power supply options for the server?

- **A:** The server comes with 80 PLUS Titanium and Platinum redundant power supplies that provide high efficiency (96% or 94%) at 50% load when connected to a 200 – 240 V AC power source.

Lenovo ThinkSystem SR530 Server (Xeon SP Gen 1 / Gen 2)

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 second generation of the Intel Xeon Processor Scalable Family (Xeon SP Gen 2), the SR530 server offers a balance of performance, capacity, and value. The SR530 server supports up to two processors, up to 768 GB of 2933 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 a LOM slot and up to 3x PCIe slots.
- The SR530 server offers basic software RAID or advanced hardware RAID protection and a wide range of networking options, including embedded LOM, selectable LOM, ML2, and PCIe network adapters. The next-generation Lenovo XClarity Controller, which is built into the SR530 server, provides advanced service processor control, monitoring, and alerting functions.
- The following figure shows the ThinkSystem SR530 server with 3.5-inch front hot-swap drives. Other drive configurations are also available.

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

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) in select configurations, which enable customers to lower energy costs, while still maintaining world-class reliability.

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- Lenovo ThinkSystem SR530 Server (Xeon SP Gen 1 / Gen 2)

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 second generation of the Intel Xeon.
- Processor Scalable Family with up to 22-core processors, up to 30.25 MB of last-level cache (LLC), up to 2933 MHz memory speeds, and up to 10.4 GT/s Ultra Path Interconnect (UPI) links.
- Support for up to two processors, 44 cores, and 88 threads allows for maximization of 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 Speed Select Technology provides improvements in server utilization and guaranteed per-core performance service levels with more granular control over processor performance.
- Intel Deep Learning Boost (Vector Neural Network Instruction set [VNNI]) is designed to deliver significant, more efficient Deep Learning (Inference) acceleration for high-performance Artificial Intelligence (AI) workloads.
- Intel Advanced Vector Extensions 512 (AVX-512) enables the acceleration of enterprise-class and high-performance computing (HPC) workloads.
- Helps maximize system performance for data-intensive applications with up to 2933 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 a 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:
- Designed to run 24 hours a day, 7 days a week
- 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 (ADC, 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.
- Speeds up troubleshooting tasks to reduce service time with diagnostics built into the XClarity Provisioning Manager.
- 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.

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 which 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 which 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.

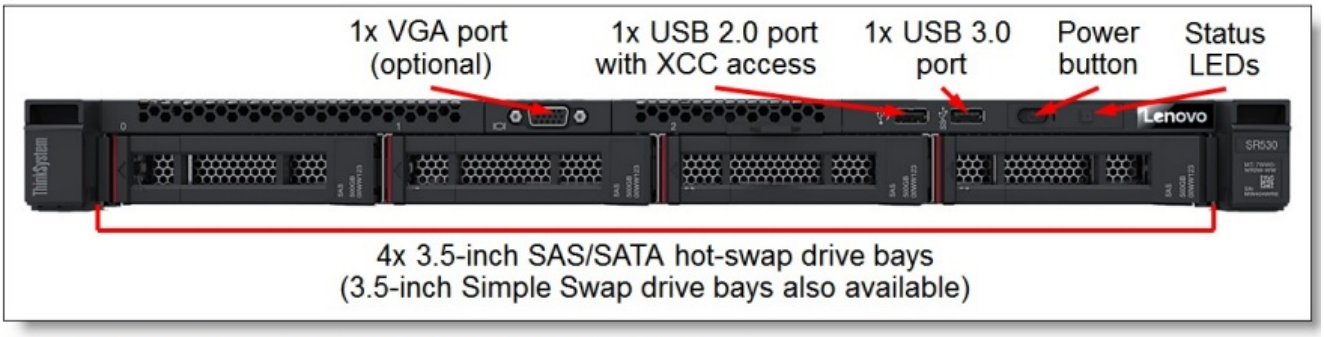

Figure 2. Front view of the SR530: 4x 3.5-inch drive bays

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

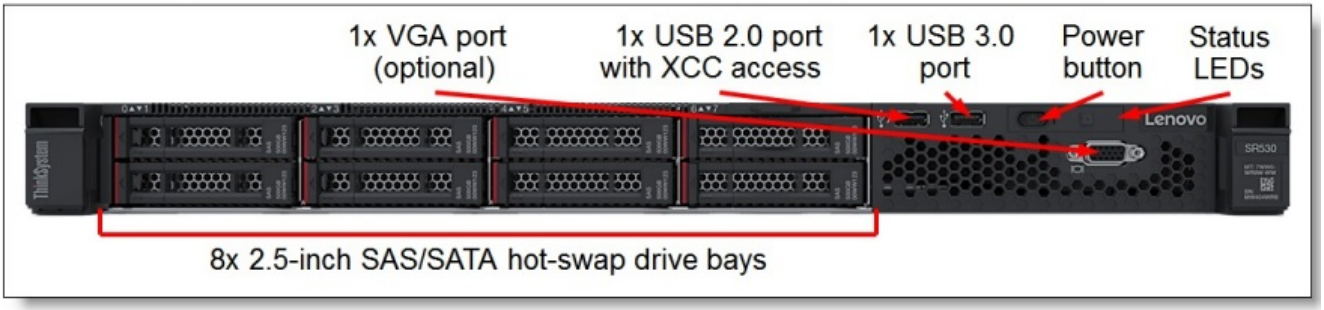

Figure 3. Front view of the SR530: 8x 2.5-inch drive bays

The front of the SR530 server includes the following components:

- Up to 8x 2.5-inch or 4x 3.5-inch hot-swap drive bays or 4x 3.5-inch Simple Swap drive bays. One VGA port

(optional).

- One USB 3.0 port.
- One USB 2.0 port with XClarity Controller access.
- Power button.
- Status LEDs.
- The following figure shows the rear of the SR530 server with three PCIe low-profile slots.

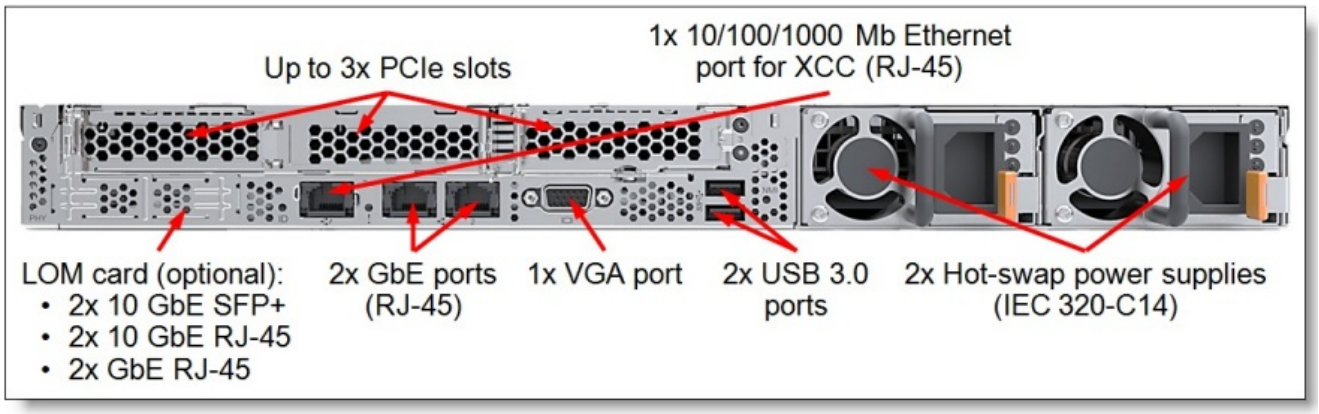

Figure 4. Rear view of the SR530

The rear of the SR530 server includes the following components:

- Up to three PCIe expansion slots (depending on the riser cards selected). One LOM card slot.
- One 1 GbE port for XClarity Controller.
- One VGA port.
- Two USB 3.0 ports.
- Up to two hot-swap power supplies.
- The following figure shows the locations of key components inside the SR530 server.

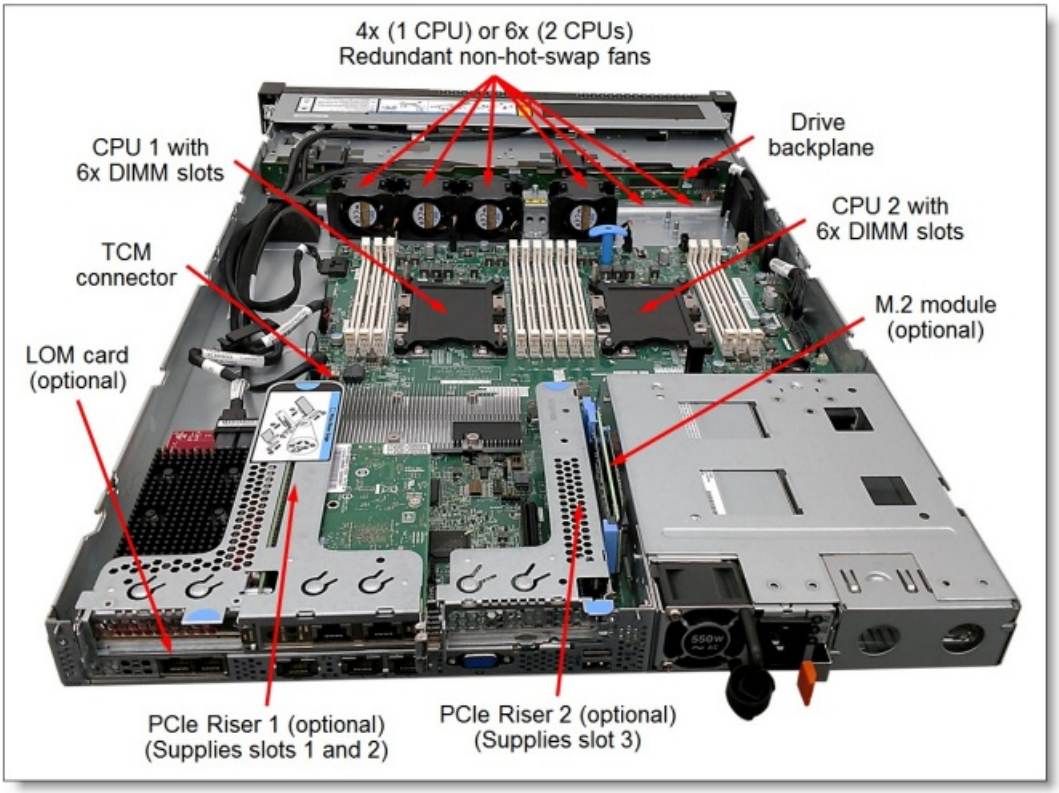

Figure 5. Internal view of the SR530

- The following key components are located inside the SR530 server:
- Up to two processors.

- 12 DIMM slots (6 DIMM slots per processor).
- Drive backplanes.
- One M.2 module connector.
- One LOM card connector.
- Two slots for PCIe riser cards.
- One TCM connector.
- Four (one processor) or six (two processors) non-hot-swap system fans.

System specifications

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

Table 1. SR530 system specifications

Attribute	Specification
Machine types	7X07 – 1 year warranty 7X08 – 3 year warranty
Form factor	1U rack-mount

Attribute	Specification
Processor	Up to two Intel Xeon Gen 2 Bronze, Silver, Gold, or Platinum processors: Up to 22 cores (1.9 GHz core speeds) Up to 3.8 GHz core speeds (4 cores) Two UPI links up to 10.4 GT/s each Up to 30.25 MB cach e Up to 2933 MHz memory speed 1st Gen Intel Xeon processors are also supported.
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 2933 MHz depending on the processor selected.
Persistent me mory	Not supported
Memory prote ction	Error correction code (ECC), SDDC (for x4-based memory DIMMs), ADDDC (for x4-based me mory DIMMs, requires Intel Xeon Gold or Platinum processors), memory mirroring, memory ra nk sparing, patrol scrubbing, and demand scrubbing.
Memory capacity	Up to 768 GB with 12x 64 GB RDIMMs (Up to 384 GB per processor)
Drive bays	4 LFF SATA Simple Swap drive bays 4 LFF SAS/SATA hot-swap drive bays 8 SFF SAS/SATA hot-swap drive bays

Internal storage capacity	2.5-inch drives: 245.76TB using 8x 30.72TB 2.5-inch SAS/SATA SSDs 19.2TB using 8x 2.4TB 2.5-inch HDDs 3.5-inch drives: 80TB using 4x 20TB 3.5-inch HDDs 61.44TB using 4x 15.36TB 3.5-inch SAS/SATA SSDs
Storage controller	6 Gb Onboard SATA AHCI 6 Gb Onboard SATA RAID (Intel RSTe) 12 Gb SAS/SATA RAID adapters with up to 8GB flash-backed cache 12 Gb SAS/SATA HBA (non-RAID)
Optical drive bays	None. Support for an external USB DVD RW Optical Disk Drive (See Optical drives).
Network interfaces	2x Integrated 1 GbE RJ-45 ports (no 10/100 Mb support) Onboard LOM slot for up to two additional 1/10 Gb Ethernet ports: 2x 1 GbE RJ-45 ports (no 10/100 Mb support) 2x 10 GbE RJ-45 ports (no 10/100 Mb support) 2x 10 GbE SFP+ ports (no 10/100 Mb support) Optional Mezzanine LOM (ML2) slot for dual-port 10 GbE cards with SFP+ or RJ-45 connectors. 1x RJ-45 10/100/1000 Mb Ethernet systems management port.
I/O expansion slots	Up to three slots depending on the riser cards installed. The slots are as follows: Slot 1: PCIe 3.0 x8; low-profile Slot 2: PCIe 3.0 x16 or ML2 x8; low profile or full-height, half-length Slot 3: PCIe 3.0 x8 or x16; low profile PCIe x16 slot 3 requires the second processor to be installed.
GPUs	Not supported

Attribute	**Specification**

Ports	Front: 1x USB 2.0 port with XClarity Controller access and 1x USB 3.0 port; optional 1x VGA port. Rear: 2x USB 3.0 ports and 1x VGA port; optional 1x DB-9 serial port.
Cooling	Four (one processor) or six (two processors) non-hot-swap system fans with N+1 redundancy.
Power supply	Up to two redundant hot-swap 550 W or 750 W (100 – 240 V) High Efficiency Platinum or 750 W (200 – 240 V) High Efficiency Titanium AC power supplies. HVDC support (PRC only).
Video	Matrox G200 with 16 MB memory integrated into the XClarity Controller. Maximum resolution is 1920×1200 at 60 Hz with 32 bits per pixel.
Hot-swap parts	Drives (select models) and power supplies.
Systems management	XClarity Controller (XCC) Standard, Advanced, or Enterprise (Pilot 4 chip), proactive platform alerts, XClarity Provisioning Manager, XClarity Essentials, XClarity Administrator, XClarity Integrators for VMware vCenter and Microsoft System Center, XClarity Energy Manager, Capacity Planner.
Security features	Power-on password, administrator's password, secure firmware updates, Trusted Platform Module (TPM) 1.2 or 2.0 (configurable UEFI setting). Optional lockable front bezel. Optional Trusted Cryptographic Module (TCM) or Nationz TPM (available only in PRC). Optional Lenovo Business Vantage security software (available only in PRC).
Operating systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi. See the Operating Systems section for specifics.
Warranty	One-year (7X07) or three-year (7X08) customer-replaceable unit (CRU) and onsite limited warranty with 9×5 Next Business Day Parts Delivered.
Service and support	Optional service upgrades are available through Lenovo Services: 2-hour or 4-hour response time, 6-hour or 24-hour committed service repair, warranty extension up to 5 years, 1-year or 2-year post-warranty extensions, YourDrive Your Data, Enterprise Software Support, and Basic Hardware Installation Services.
Dimensions	Width: 435 mm (17.1 in.), height: 43 mm (1.7 in.), depth: 750 mm (29.5 in.). See physical specifications for details.
Weight	Minimum configuration: 10.2 kg (22.5 lb), maximum: 16 kg (35.3 lb)

Models

- ThinkSystem SR530 models can be configured by using the Lenovo Data Center Solution Configurator (DCSC).
- Configure-to-order (CTO) models are used to create models with factory-integrated server customizations. For CTO models, two base CTO models are available for the SR530 as listed in the following table, CTO1WW and

CTOLWW:

- The CTO1WW base CTO model is for general business and is selectable by choosing General Purpose mode in DCSC.
- The CTOLWW base model is intended for High-Performance Computing (HPC) and Artificial Intelligence (AI) configurations and solutions, including configurations for Lenovo Scalable Infrastructure (LeSI), and is enabled using either the HPC & AI LeSI
- Solutions mode or HPC & AI Hardware mode in DCSC. CTOLWW configurations can also be built using System x and Cluster Solutions Configurator (x-config).
- Preconfigured server models may also be available for the SR530, however, these are region-specific; that is, each region may define its server models, and not all server models are available in every region.
- The following table lists the base CTO models of the ThinkSystem SR530 server.

Table 2. Base CTO models

Machine Type/Model General purpose	Machine Type/Model for HPC and AI	Description
7X08CTO1WW	7X08CTOLWW	ThinkSystem SR530 – 3-year Warranty
7X07CTO1WW	7X07CTOLWW	ThinkSystem SR530 – 1-year Warranty

- The following table lists the base chassis for CTO models of the SR530 server.
- There are currently two base feature codes for both the 2.5-inch and 3.5-inch chassis. The “v2” bases include the new SR530 Air Duct Kit v2 which is required if a RAID 9350 adapter is to be configured.
- See the Field Upgrades section for details. The non-v2 bases can be selected if any other RAID adapter or HBA is selected.

Table 3. Base chassis for CTO models

Feature code	Description
Base feature codes – suitable for all configurations except those with a RAID 9350 adapter	
AV0T	ThinkSystem SR530 3.5″ Chassis with 4 Bays
AV0S	ThinkSystem SR530 2.5″ Chassis with 8 Bays
Base feature codes – suitable for all configurations including ones with a RAID 9350 adapter (includes the SR530 Air Duct Kit v2)	
BNPS	ThinkSystem SR530 3.5″ Chassis with 4 Bays v2
BNP	ThinkSystem SR530 2.5″ Chassis with 8 Bays v2

- Withdrawn models with 1st Gen processors: For the preconfigured models with 1st Gen processors that are now withdrawn, see the following Gen 1 product guide: **https://lenovopress.com/lp0639-thinksystem-sr530-server-xeon-sp-gen-1**
- **The following tables list the available models, grouped by region:** Models for Australia and New Zealand

- Models for South East Asian countries (ASEAN) Models for Brazil
- Models for the EMEA region
- Models for Hong Kong, Taiwan, Korea (HTK) Models for India
- Models for Japan
- Models for Latin American countries (except Brazil)
- Refer to the Specifications section for information about the standard features of the server.

Common to all models:

- All models indicated as having the 750W power supply are using the Platinum power supply

Models for Australia and New Zealand Table 4. Models for Australia and New Zealand

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
Standard models with a 1-year warranty (machine type 7X07)										
7X07A00VAU	1x Bronze 3204 6C 85W 1.9G	1x 16GB 2Rx8 2666	Option	Option 2.5″/8, Open bay	Open	Open	1x 550W	Yes	Std	Slide
Standard models with a 3-year warranty (machine type 7X08)										
7X08A085AU	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A099AU	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A06YAU	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A071AU	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A080AU	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08XAU	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A09KAU	1x Silver 4210 10C 85W 2.2G	1x 16GB 2Rx8 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A09MAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A09NAU	1x Silver 4210 10C 85W 2.2G	1x 16GB 2Rx8 2933	930-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A07DAU	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08CAU	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07XAU	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08NAU	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07EAU	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07VAU	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08GAU	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

Model	**Intel Xeon processor†**	**Memory**	**RAID**	**Drive bays and drives**	**LOM**	**Slots**	**Power supply**	**Front VGA**	**CXC**	**Rail kit**
7X08A08RAU	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A07GAU	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08JAU	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A076AU	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08BAU	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08LAU	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A092AU	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A06XAU	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07BAU	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
TopSeller models with a 3-year warranty (machine type 7X08)										
7X08A09GAU	1x Bronze 3204 6C 85W 1.9G	1x 16GB 2Rx8 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A09HAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A09LAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	930-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A0BCAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	Option	Option 2.5″/8, Open bay	Open	x8 LP, x16 FH	1x 750W	Yes	Ent	Slide

7X08A0BMAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	Option	Option 2.5″/8, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A09JAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	930-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A0BAAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	Option	Option 2.5″/8, Open bay	Open	x8 LP, x16 FH	1x 750W	Yes	Ent	Slide
7X08A0BNAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	Option	Option 2.5″/8, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X08A0B0AU	1x Silver 4216 16C 100W 2.1G	1x 32GB 2933	930-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 FH	1x 550W	Yes	Ent	Slide
7X08A0BBAU	1x Silver 4216 16C 100W 2.1G	1x 32GB 2933	Option	Option 2.5″/8, Open bay	Open	x8 LP, x16 FH	1x 750W	Yes	Ent	Slide
7X08A0BLAU	1x Silver 4216 16C 100W 2.1G	1x 32GB 2933	Option	Option 2.5″/8, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA

- **Processor Description:** Processor model, number of cores, thermal design power (TDP), core frequency

Models for South East Asian countries (ASEAN)

Table 5. Models for South East Asian countries (ASEAN)

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
Standard models with a 3-year warranty (machine type 7X08)										
7X08A086SG	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit

7X08A099SG	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A06ZSG	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08ZSG	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A081SG	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08XSG	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07DSG	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07ZSG	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A083SG	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A093SG	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07ESG	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07VSG	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A073SG	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08RSG	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A07PSG	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A097SG	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07TSG	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08BSG	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08LSG	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A09FSG	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07BSG	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A091SG	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

Processor Description: Processor model, number of cores, thermal design power (TDP), core frequency

Models for Brazil Table 6. Models for Brazil

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
TopSeller models with a 3-year warranty (machine type 7X08)										
7X08A09YBR	1x Bronze 3204 6C 85W 1.9G	1x 16GB 1Rx4 2933	530-8i	4x 3.5″ SAS, Open bay	2x1Gb	x8 LP, x16 FH	1x 550W	Yes	Std	Slide
7X08A09ZBR	1x Silver 4208 8C 85W 2.1G	1x 16GB 1Rx4 2933	530-8i	4x 3.5″ SAS, Open bay	2x1Gb	x8 LP, x16 FH	1x 550W	Yes	Std	Slide
7X08A0APBR	1x Silver 4208 8C 85W 2.1G	1x 32GB 2933	730-8i 2GB	8x 2.5″ SAS, Open bay	2x1Gb	x8 LP, x16 FH	1x 550W	Opt	Std	Slide

- **Processor Description:** Processor model, number of cores, thermal design power (TDP), core frequency

Models for the EMEA region

Table 7. Models for the EMEA region

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
Standard models with a 3-year warranty (machine type 7X08)										
7X08A0BFEA	1x Silver 4208 8C 85W 2.1G	1x 32GB 2933	Option	Option 2.5″/8, Open bay, M.2 Single	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide
7X08A0BHEA	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	5350-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide
7X08A0BQEA	1x Silver 4208 8C 85W 2.1G	1x 32GB 2933	Option	Option 2.5″/8, Open bay, M.2 Dual, 2x 128GB M.2	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide
7X08A0BEEA	1x Silver 4210R 10C 100W 2.4G	1x 16GB 2Rx8 2933	5350-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide
7X08A0BJEA	1x Silver 4210R 10C 100W 2.4G	1x 32GB 2933	5350-8i	8x 2.5″ SAS, 2x 240GB S4510	Open	x8 LP, x16 LP	2x 750W	Opt	Ent	Slide
7X08A0BKEA	1x Silver 4210R 10C 100W 2.4G	1x 32GB 2933	5350-8i	8x 2.5″ SAS, 2x 480GB MV SSD	Open	x8 LP, x16 LP	2x 750W	Opt	Ent	Slide
7X08A0BPEA	1x Silver 4210R 10C 100W 2.4G	1x 16GB 2Rx8 2933	5350-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide

- **Processor Description:** Processor model, number of cores, thermal design power (TDP), core frequency

Models for Hong Kong, Taiwan, Korea (HTK)

Table 8. Models for Hong Kong, Taiwan, Korea (HTK)

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
Standard models with a 3-year warranty (machine type 7X08)										
7X08A085CN	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A09CCN	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
7X08100VCN	1x Silver 4208 8C 85W 2.1G	2x 16GB 2Rx8 2933	930-8i	8x 2.5″ SAS, 2x 1.2TB 10K, 2x 240GB S4510, 1x Ext DVDRW	2x1Gb	x8 LP, x16 LP	2x 750W	Opt	Std	Slide
7X08A06YCN	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A071CN	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A0B9CN	1x Silver 4208 8C 85W 2.1G	2x 16GB 2Rx8 2933	930-8i	8x 2.5″ SAS, 2x 1.2TB 10K, 4x 480GB PM883, 1x Ext DVDRW	2x1Gb	x8 LP, x16 LP, x8 LP	2x 750W	Opt	Ent	Slide
7X08A080CN	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A09BCN	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A082CN	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A08CCN	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07XCN	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08NCN	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07NCN	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A09DCN	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A088CN	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08GCN	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07GCN	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08JCN	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A076CN	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A087CN	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08MCN	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A092CN	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A06XCN	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07KCN	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

Processor description: Processor model, number of cores, thermal design power (TDP), core frequency

Models for India Table 9. Models for India

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
Standard models with a 3-year warranty (machine type 7X08)										
7X08A07USG	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08TSG	1x Bronze 3204 6C 85W 1.9G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07WSG	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A084SG	1x Silver 4208 8C 85W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A079SG	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07YSG	1x Silver 4210 10C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A06VSG	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07SSG	1x Silver 4214 12C 85W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A07JSG	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A09ASG	1x Silver 4215 8C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08PSG	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A098SG	1x Silver 4216 16C 100W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A077SG	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A095SG	1x Gold 5215 10C 85W 2.5G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A07RSG	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08VSG	1x Gold 5217 8C 115W 3.0G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A06USG	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08WSG	1x Gold 5218 16C 125W 2.3G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A089SG	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A094SG	1x Gold 5220 18C 125W 2.2G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X08A08KSG	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

7X08A09ESG	1x Gold 6230 20C 125W 2.1G	1x 8GB 2933	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt

- **Processor description:** Processor model, number of cores, thermal design power (TDP), core frequency

Models for Japan Table 10. Models for Japan

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
Standard models with a 3-year warranty (machine type 7X08)										
7X08A0AWJP	1x Gold 5218R 20C 125W 2.1G	1x 16GB 1Rx4 2666	Option	Option 2.5″/8, Open bay	Open	Open	1x 550W	Opt	Adv	Slide
TopSeller models with a 3-year warranty (machine type 7X08)										
7X08A08AJP	1x Bronze 3204 6C 85W 1.9G	1x 16GB 1Rx4 2666	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A08DJP	1x Bronze 3204 6C 85W 1.9G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A0AXJP	1x Bronze 3206R 8C 85W 1.9G	1x 16GB 1Rx4 2666	Option	Option 2.5″/8, Open bay	Open	Open	1x 550W	Opt	Adv	Slide
7X08A08EJP	1x Silver 4208 8C 85W 2.1G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A07HJP	1x Silver 4210 10C 85W 2.2G	1x 16GB 1Rx4 2666	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A08SJP	1x Silver 4210 10C 85W 2.2G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide

7X08A0AYJP	1x Silver 4210R 10C 100W 2.4G	1x 16GB 1Rx4 2666	Option	Option 2.5″/8, Open bay	Open	Open	1x 550W	Opt	Adv	Slide
7X08A08QJP	1x Silver 4214 12C 85W 2.2G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A0AVJP	1x Silver 4214R 12C 100W 2.4G	1x 16GB 1Rx4 2666	Option	Option 2.5″/8, Open bay	Open	Open	1x 550W	Opt	Adv	Slide
7X08A07QJP	1x Silver 4215 8C 85W 2.5G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A07LJP	1x Silver 4216 16C 100W 2.1G	1x 16GB 1Rx4 2666	530-8i	4x 3.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A07MJP	1x Silver 4216 16C 100W 2.1G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A08HJP	1x Gold 5215 10C 85W 2.5G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A08FJP	1x Gold 5217 8C 115W 3.0G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A08YJP	1x Gold 5218 16C 125W 2.3G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A090JP	1x Gold 5220 18C 125W 2.2G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide
7X08A08UJP	1x Gold 5222 4C 105W 3.8G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide

7X08A096JP	1x Gold 6230 20C 125W 2.1G	1x 16GB 1Rx4 2666	730-8i 2GB	8x 2.5″ SAS, Open bay	Open	x8 LP, x16 LP	1x 550W	Opt	Adv	Slide

Processor description: Processor model, number of cores, thermal design power (TDP), core frequency

Models for Latin American countries (except Brazil)

Table 11. Models with a 3-year warranty for Latin American countries (except Brazil)

Model	Intel Xeon processor†	Memory	RAID	Drive bays and drives	LOM	Slots	Power supply	Front VGA	CXC	Rail kit
TopSeller models with a 3-year warranty (machine type 7X08)										
7X08A09WLA	1x Bronze 3204 6C 85W 1.9G	1x 16GB 1Rx4 2933	530-8i	4x 3.5″ SAS, Open bay	2x1Gb	x8 LP, x16 FH	1x 550W	Yes	Std	Slide
7X08A09XLA	1x Silver 4208 8C 85W 2.1G	1x 16GB 1Rx4 2933	530-8i	4x 3.5″ SAS, Open bay	2x1Gb	x8 LP, x16 FH	1x 550W	Yes	Std	Slide
7X08A0AQLA	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	730-8i 2GB	8x 2.5″ SAS, Open bay	2x1Gb	x8 LP, x16 LP	1x 750W	Yes	Std	Slide

- **Processor description:** Processor model, number of cores, thermal design power (TDP), core frequency

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.
- **Processor support:** Both 1st Gen and 2nd Gen Intel Xeon SP processors are supported. For supported 1st Gen processors, see the Continued support for 1st Gen Intel Xeon Scalable processors section.

Processor specifications table abbreviations:

- **UPI:** Ultra Path Interconnect
- **TDP:** Thermal Design Power
- **HT:** Hyper-Threading
- **TB:** Turbo Boost 2.0
- **VT-x:** Virtualization Technology

- **VT-d:** Virtualization Technology for Directed I/O
- **SST-PP:** Speed Select Technology – Performance Profile FMA: Fused-Multiply Add (AVX-512)
- **RAS:** Reliability, Availability, and Serviceability
- **Std:** Standard RAS
- **Adv:** Advanced RAS

Table 13. Processor specifications

CPU model	Cores/threads	Core speed (Base / TB Max)	Cache	Max DDR4 speed	Max memory capacity per socket	UPI speed	TDP	HT	TB	VT-x	VT-d	SST-PP	FMA units	RAS
Intel Xeon Bronze processors														
3204	6 / 6	1.9 / 1.9 GHz	8.25 MB	2133 MHz	1 TB	9.6 GT/s	85 W	N	N	Y	Y	N	1	Std
3206R	8 / 8	1.9 / 1.9 GHz	11 MB	2133 MHz	1 TB	9.6 GT/s	85 W	N	N	Y	Y	N	1	
Intel Xeon Silver processors														
4208	8 / 16	2.1 / 3.2 GHz	11 MB	2400 MHz	1 TB	9.6 GT/s	85 W	Y	Y	Y	Y	N	1	Std
4209T	8 / 16	2.2 / 3.2 GHz	11 MB	2400 MHz	1 TB	9.6 GT/s	70 W	Y	Y	Y	Y	N	1	Std
4210	10 / 20	2.2 / 3.2 GHz	13.75 MB	2400 MHz	1 TB	9.6 GT/s	85 W	Y	Y	Y	Y	N	1	Std
4210R	10 / 20	2.4 / 3.2 GHz	13.75 MB	2400 MHz	1 TB	9.6 GT/s	100 W	Y	Y	Y	Y	N	1	Std
4214	12 / 24	2.2 / 3.2 GHz	16.5 MB	2400 MHz	1 TB	9.6 GT/s	85 W	Y	Y	Y	Y	N	1	Std
4214R	12 / 24	2.4 / 3.5 GHz	16.5 MB	2400 MHz	1 TB	9.6 GT/s	100 W	Y	Y	Y	Y	N	1	Std
4214Y	12 / 24	2.2 / 3.2 GHz	16.5 MB	2400 MHz	1 TB	9.6 GT/s	85 W	Y	Y	Y	Y	Y	1	Std

CPU model	Cores/threads	Core speed (Base / TB Max)	Cache	Max DDR4 speed	Max memory capacity per socket	UPI speed	TDP	HT	TB	VT-x	VT-d	SST-PP	FMA units	RAS

	10 / 20	2.3 / 3.2 GHz												
	8 / 16	2.4 / 3.2 GHz												
4215	8 / 16	2.5 / 3.5 GHz	11 MB	2400 MHz	1 TB	9.6 GT/s	85 W	Y	Y	Y	Y	N	1	Std
4216	16 / 32	2.1 / 3.2 GHz	22 MB	2400 MHz	1 TB	9.6 GT/s	100 W	Y	Y	Y	Y	N	1	Std
Intel Xeon Gold processors														
5215	10 / 20	2.5 / 3.4 GHz	13.75 MB	2666 MHz	1 TB	10.4 GT/s	85 W	Y	Y	Y	Y	N	1	Adv
5215L	10 / 20	2.5 / 3.4 GHz	13.75 MB	2666 MHz	4.5 TB	10.4 GT/s	85 W	Y	Y	Y	Y	N	1	Adv
5217	8 / 16	3.0 / 3.7 GHz	11 MB	2666 MHz	1 TB	10.4 GT/s	115 W	Y	Y	Y	Y	N	1	Adv
5218	16 / 32	2.3 / 3.9 GHz	22 MB	2666 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	1	Adv
5218B	16 / 32	2.3 / 3.9 GHz	22 MB	2666 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	1	Adv
5218R	20 / 40	2.1 / 4.0 GHz	27.5 MB	2666 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	1	Adv
5218T	16 / 32	2.1 / 3.8 GHz	22 MB	2667 MHz	1 TB	10.4 GT/s	105 W	Y	Y	Y	Y	N	1	Adv
5220	18 / 36	2.2 / 3.9 GHz	24.75 MB	2666 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	1	Adv
5220S	18 / 36	2.7 / 3.9 GHz	24.75 MB	2667 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	1	Adv
5220T	18 / 36	1.9 / 3.9 GHz	24.75 MB	2667 MHz	1 TB	10.4 GT/s	105 W	Y	Y	Y	Y	N	1	Adv
5222	4 / 8	3.8 / 3.9 GHz	16.5 MB	2933 MHz	1 TB	10.4 GT/s	105 W	Y	Y	Y	Y	N	2	Adv
6209U	20 / 40	2.1 / 3.9 GHz	27.5 MB	2933 MHz	1 TB	N/A	125 W	Y	Y	Y	Y	N	2	Adv
6222V	20 / 40	1.8 / 3.6 GHz	27.5 MB	2400 MHz	1 TB	10.4 GT/s	115 W	Y	Y	Y	Y	N	2	Adv
6226	12 / 24	2.7 / 3.7 GHz	19.25 MB	2933 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	2	Adv
6230	20 / 40	2.1 / 3.9 GHz	27.5 MB	2933 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	2	Adv
6230N	20 / 40	2.3 / 3.9 GHz	27.5 MB	2933 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	2	Adv

6230T	20 / 40	2.1 / 3.9 GHz	27.5 MB	2933 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	2	Adv
6238T	22 / 44	1.9 / 3.7 GHz	30.25 MB	2933 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	2	Adv
Intel Xeon Platinum processors														
8253	16 / 32	2.2 / 3.0 GHz	22 MB	2933 MHz	1 TB	10.4 GT/s	125 W	Y	Y	Y	Y	N	2	Adv
8256	4 / 8	3.8 / 3.9 GHz	16.5 MB	2933 MHz	1 TB	10.4 GT/s	105 W	Y	Y	Y	Y	N	2	Adv

Configuration notes:

- The Intel Xeon Gold 5218 and 5218B processors have similar specifications; however, they use different silicon designs and cannot be mixed into the same system.
- The processors that support SST-PP offer three distinct operating points that are defined by a core count with a base speed associated with that core count.
- The operating point is static, it is selected during the boot process and cannot be changed at runtime.
- 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 and a heatsink; two additional system fans are not included and need to be purchased with the second processor (see Cooling for details).

Table 14. Processor options

Part number	Feature code*	Description
Intel Xeon Bronze processors		
4XG7A37939	B4HU	SR530/SR570/SR630 Intel Xeon Bronze 3204 6C 85W 1.9GHz Processor w/o FAN
4XG7A37990	B7N3	SR530/SR570/SR630 Intel Xeon Bronze 3206R 8C 85W 1.9GHz Processor w/o FAN
Intel Xeon Silver processors		
4XG7A37936	B4HT	SR530/SR570/SR630 Intel Xeon Silver 4208 8C 85W 2.1GHz Processor w/o FAN
4XG7A37945	B4P4	SR530/SR570/SR630 Intel Xeon Silver 4209T 8C 70W 2.2GHz Processor w/o FAN
4XG7A37933	B4HS	SR530/SR570/SR630 Intel Xeon Silver 4210 10C 85W 2.2GHz Processor w/o FAN
4XG7A37988	B7N5	SR530/SR570/SR630 Intel Xeon Silver 4210R 10C 100W 2.4GHz Processor w/o FAN

4XG7A37930	B4HR	SR530/SR570/SR630 Intel Xeon Silver 4214 12C 85W 2.2GHz Processor w/o FAN
4XG7A37987	B7N6	SR530/SR570/SR630 Intel Xeon Silver 4214R 12C 100W 2.4GHz Processor w/o FAN
4XG7A37942	B4NW	SR530/SR570/SR630 Intel Xeon Silver 4214Y 12/10/8C 85W 2.2GHz Processor w/o FAN
4XG7A37927	B4HQ	SR530/SR570/SR630 Intel Xeon Silver 4215 8C 85W 2.5GHz Processor w/o FAN
4XG7A37924	B4HP	SR530/SR570/SR630 Intel Xeon Silver 4216 16C 100W 2.1GHz Processor w/o FAN
Intel Xeon Gold processors		
4XG7A37917	B4HN	SR530/SR570/SR630 Intel Xeon Gold 5215 10C 85W 2.5GHz Processor w/o FAN
4XG7A37911	B4P9	SR530/SR570/SR630 Intel Xeon Gold 5215L 10C 85W 2.5GHz Processor w/o FAN
4XG7A37921	B4HM	SR530/SR570 Intel Xeon Gold 5217 8C 115W 3.0GHz Processor w/o FAN
4XG7A37896	B4HL	SR530/SR570/SR630 Intel Xeon Gold 5218 16C 125W 2.3GHz Processor w/o FAN
4XG7A37959	B6BS	SR530/SR570/SR630 Intel Xeon Gold 5218B 16C 125W 2.3GHz Processor w/o FAN
4XG7A63296	BAZS	SR530/SR570/SR630 Intel Xeon Gold 5218R 20C 125W 2.1GHz Processor w/o FAN
4XG7A37956	B5S0	SR530/SR570 Intel Xeon Gold 5218T 16C 105W 2.1GHz Processor w/o FAN
4XG7A37893	B4HK	SR530/SR570/SR630 Intel Xeon Gold 5220 18C 125W 2.2GHz Processor w/o FAN
4XG7A38018	B6CW	SR530/SR570/SR630 Intel Xeon Gold 5220S 18C 125W 2.7GHz Processor w/o FAN
4XG7A38004	B6CQ	SR530/SR570 Intel Xeon Gold 5220T 18C 105W 1.9GHz Processor w/o FAN
4XG7A37953	B5S1	SR530/SR570 Intel Xeon Gold 5222 4C 105W 3.8GHz Processor w/o FAN
None**	B6CX	Intel Xeon Gold 6209U 20C 125W 2.1GHz Processor
4XG7A38022	B6CV	SR530/SR570/SR630 Intel Xeon Gold 6222V 20C 115W 1.8GHz Processor w/o FAN
4XG7A38020	B6CL	SR530/SR570/SR630 Intel Xeon Gold 6226 12C 125W 2.7GHz Processor w/o FAN
4XG7A37890	B4HJ	SR530/SR570/SR630 Intel Xeon Gold 6230 20C 125W 2.1GHz Processor w/o FAN

4XG7A38029	B5RY	SR530/SR570 Intel Xeon Gold 6230N 20C 125W 2.3GHz Processor w/o FAN
4XG7A38007	B6CP	SR530/SR570 Intel Xeon Gold 6230T 20C 125W 2.1GHz Processor w/o FAN
4XG7A37908	B4P2	SR530/SR570 Intel Xeon Gold 6238T 22C 125W 1.9GHz Processor w/o FAN
Intel Xeon Platinum processors		
4XG7A37899	B5RZ	SR530/SR570/SR630 Intel Xeon Platinum 8253 16C 125W 2.2GHz Processor w/o FAN
4XG7A37949	B5S2	SR530/SR570 Intel Xeon Platinum 8256 4C 105W 3.8GHz Processor w/o FAN

- For CTO configurations, the feature code represents a processor, and fans and heatsinks are derived by the configuration tool.
- Factory-installed only; no field upgrade. Supported in the uniprocessor configurations only.

Continued support for 1st Gen Intel Xeon Scalable processors

- The SR530 also continues to support the 1st Gen Intel Xeon Scalable processors (formerly codenamed “Skylake”) listed in the following table.

Table 15. Long-life 1st Gen Intel Xeon Scalable processors

Part number	Feature code	Description

- Only available as a field upgrade for existing customers. Not available in CTO (configure to order) configurations.
- For specifications of these processors, see the Intel Xeon Scalable Processor Reference for Lenovo ThinkSystem Servers: **https://lenovopress.com/lp1262-intel-xeon-sp-processor-reference#term=SKL**

Memory

- The SR530 server supports up to 6 TruDDR4 memory RDIMMs when one processor is installed and up to 12 RDIMMs when two processors are installed for a total of up to 768 GB of memory capacity (up to 384 TB per processor). Each processor has six memory channels, and there is 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 are provided worldwide.
- The following memory protection technologies are supported by the processor’s integrated memory controllers:

- ECC
- SDDC (for x4-based memory DIMMs)
- ADC (for x4-based memory DIMMs; Gold and Platinum processors only) Memory mirroring
- Memory rank sparing
- Patrol scrubbing
- Demand scrubbing
- The following table lists memory options available for the SR530 server. The table also indicates which processor generation is supported for each memory option.

Table 16. Memory options

Part number	Feature code	Description	Maximum quantity *	Gen 1 CPU	Gen 2 CPU
RDIMMs – 2933 MHz					
4ZC7A08706	B4H1	ThinkSystem 8GB TruDDR4 2933MHz (1Rx8 1.2V) RDIMM	6 / 12	No	Yes
4ZC7A08707	B4LY	ThinkSystem 16GB TruDDR4 2933MHz (1Rx4 1.2V) RDIMM	6 / 12	No	Yes
4ZC7A08708	B4H2	ThinkSystem 16GB TruDDR4 2933MHz (2Rx8 1.2V) RDIMM	6 / 12	No	Yes
4ZC7A08709	B4H3	ThinkSystem 32GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM	6 / 12	No	Yes
4ZC7A08710	B4H4	ThinkSystem 64GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM	6 / 12	No	Yes
RDIMMs – 2666 MHz					
7X77A01301	AUU1	ThinkSystem 8GB TruDDR4 2666 MHz (1Rx8 1.2V) RDIMM	6 / 12	Yes	No
7X77A01303	AUNT	ThinkSystem 16GB TruDDR4 2666 MHz (2Rx8 1.2V) RDIMM	6 / 12	Yes	Yes
7X77A01304	AND	ThinkSystem 32GB TruDDR4 2666 MHz (2Rx4 1.2V) RDIMM	6 / 12	Yes	Yes

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

Configuration notes:

- All RDIMMs in the server operate at the same speed, which is determined as the lowest value of: RDIMM rated speed (2666 MHz or 2933 MHz).
- Memory speed is supported by the specific processor (2133 MHz, 2400 MHz, 2666 MHz, or 2933 MHz).
- **Note:** Maximum memory speed can be achieved when Max performance mode is enabled in UEFI.
- Mixing RDIMMs of different ranks (single- or dual-rank), DRAM chip types (x4 or x8), speeds (2666 MHz or

2933 MHz), and capacities (8 GB, 16 GB, 32 GB, or 64 GB) is supported in the independent channel mode (the default operational mode).

For server configurations with memory protection, the following rules apply:

- Single Device Data Correction (SDDC) works only in the independent channel mode and supports only x4-based memory DIMMs.
- Adaptive Double Device Data Correction (ADC) 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 quantities of 2 or 4 per processor for mirroring across two memory channels, or in quantities of 3 or 6 per processor for mirroring across three memory channels. Mixing two- and three-channel mirroring in the server is allowed (one processor uses two-channel mirroring, and another processor uses three-channel mirroring). All DIMMs in the server must be identical in type and size.
- If memory rank sparing is used, then a minimum of two ranks must be installed per populated channel (a least one dual-rank or quad-rank DIMM; single-rank DIMMs are not supported).
- With rank sparing, one rank in each populated channel is reserved as spare memory for other ranks on the same channel.
- All DIMMs in the server must be identical in type and size. SDDC, memory mirroring, and memory rank-sparing modes are mutually exclusive. Only one operational memory mode can be enabled on the server.

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.

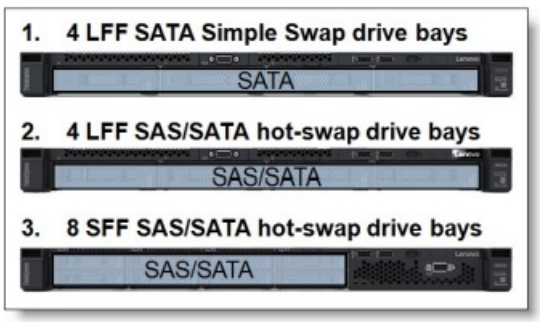

Figure 6. Internal drive bay configurations

In this section:

- Backplanes

- Supported drive bay combinations
- Field upgrades
- M.2 drives
- SED encryption key management with ISKLM

Backplanes

- The following table lists the backplane choices for the server.

Table 17. Internal storage options

Part number	Feature code	Description	Maximum quantity
None*	BMU9	ThinkSystem 1U 3.5″ SATA 4-Bay Simple Swap Backplane v2	1
None*	AV0Y	ThinkSystem 1U 3.5″ SATA 4-Bay Simple Swap Backplane	1
None*	AUW8	ThinkSystem 3.5″ SATA/SAS 4-Bay Backplane	1
4XH7A80455	AUWB	ThinkSystem SR530/SR630 2.5″ SATA/SAS 8-Bay Backplane Kit v2	
7XH7A05896	AUWB	ThinkSystem SR530/SR630 2.5″ SATA/SAS 8-Bay Backplane Kit	1

- **CTO only;** not available as a field upgrade

Supported drive bay combinations

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

Table 18. 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 8i or HBA 8i (4)
8x 2.5″ chassis (Feature code AV0S)			
8x 2.5-in. SAS/SATA hot-swap	0	1	1x RAID 8i or HBA 8i (8)
			1x RAID 16i or HBA 16i (8)

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

Field upgrades

- Models without any drive bays are based on the 8x 2.5″ chassis (feature code AV0S). Such models can be upgraded in the field to have 8x 2.5″ SAS/SATA hot-swap drive bays.
- The options are listed in the following table. The backplane kit contains the necessary cables when connected to an X30 adapter (930, 730, or 530 RAID adapter, or 430 HBA).
- However, if you are connecting the backplane to an X40 adapter (940 RAID or 440 HBA), you will also require an additional X40 RAID
- Cable Kit which includes the replacement cables needed for these adapters.

Table 19. Field upgrades – backplanes

Part number	Description
4XH7A80455	ThinkSystem SR530/SR630 2.5″ SATA/SAS 8-Bay Backplane Kit v2
7XH7A05896	ThinkSystem SR530/SR630 2.5″ SATA/SAS 8-Bay Backplane Kit
4XH7A61096	ThinkSystem SR530/SR570/SR630 2.5″ SAS/SATA 8-Bay X40 RAID Cable Kit (contains replacement SAS cable for use with X40 adapter)

- If one of the following RAID adapters is purchased as a field upgrade, the system air duct (air baffle) will need to be replaced with a new one to accommodate the supercar that ships with the adapter:
- ThinkSystem RAID 9350-8i 2GB Flash PCIe 12Gb Adapter, 4Y37A72483
- The ordering information for the replacement air duct is listed in the following table:

Table 20. Field upgrades – air duct

Part number	Feature code	Description
4M17A61350	BNZ2	ThinkSystem SR530 Air Duct Kit v2

M.2 drives

- The server supports one or two M.2 form-factor SATA drives for use as an operating system boot solution.
- With two M.2 drives configured, the drives are configured by default as a RAID-1 mirrored pair for redundancy.
- The M.2 drives are installed into an M.2 adapter which in turn is installed in a dedicated slot on the system board.
- See the internal view of the server in the Components and Connectors section for the location of the M.2 slot.
- There are two M.2 adapters supported, as listed in the following table.

Table 21. M.2 components

Part number	Feature code	Description	Maximum supported
7Y37A01092	AUMU	ThinkSystem M.2 Enablement Kit (contains the Single M.2 Boot Adapter; supports 1 drive)	1
7Y37A01093	AUMV	ThinkSystem M.2 with Mirroring Enablement Kit (contains the Dual M.2 Boot Adapter, supports 1 or 2 drives)	1

- Supported drives are listed in the Internal drive options section.
- For details about M.2 components, see the ThinkSystem M.2 Drives and M.2 Adapters product guide: **https://lenovopress.com/lp0769-thinksystem-m2-drives-adapters**

SED encryption key management with ISKLM

- The server supports self-encrypting drives (SEDs) as listed in the Internal drive options section.
- To effectively manage a large deployment of these drives in Lenovo servers, IBM Security Key Lifecycle Manager (SKLM) offers a centralized key management solution.
- A Lenovo Feature on Demand (FoD) upgrade is used to enable this SKLM support in the management processor of the server.
- The following table lists the part numbers and feature codes for the upgrades.

Table 22. FoD upgrades for SKLM support

Part number	Feature code	Description
Security Key Lifecycle Manager – FoD (United States, Canada, Asia Pacific, and Japan)		
00D9998	A5U1	SKLM for System x/ThinkSystem w/SEDs – FoD per Install with 1 year S&S
00D9999	AS6C	SKLM for System x/ThinkSystem w/SEDs – FoD per Install with 3 year S&S
Security Key Lifecycle Manager – FoD (Latin America, Europe, Middle East, and Africa)		
00FP648	A5U1	SKLM for System x/ThinkSystem w/SEDs – FoD per Install with 1 year S&S
00FP649	AS6C	SKLM for System x/ThinkSystem w/SEDs – FoD per Install with 3 year S&S

- The IBM Security Key Lifecycle Manager software is available from Lenovo using the ordering information listed in the following table.

Table 23. IBM Security Key Lifecycle Manager licenses

Part number	Description
7S0A007FWW	IBM Security Key Lifecycle Manager Basic Edition Install License + SW Subscription & Support 12 Months
7S0A007HWW	IBM Security Key Lifecycle Manager For Raw Decimal Terabyte Storage Resource Value Unit License + SW Subscription & Support 12 Months
7S0A007KWW	IBM Security Key Lifecycle Manager For Raw Decimal Petabyte Storage Resource Value Unit License + SW Subscription & Support 12 Months
7S0A007MWW	IBM Security Key Lifecycle Manager For Usable Decimal Terabyte Storage Resource Value Unit License + SW Subscription & Support 12 Months
7S0A007PWW	IBM Security Key Lifecycle Manager For Usable Decimal Petabyte Storage Resource Value Unit License + SW Subscription & Support 12 Months

Controllers for internal storage

The following table lists the storage controllers and options for internal storage of the SR530 server.
Table 24. RAID controllers and HBAs for internal storage

Part number	Feature code	Description	Maximum quantity	I/O slots supported
6 Gbps SATA controllers				
Onboard*	Onboard*	Onboard AHCI (non-RAID) / Intel RSTe (RAID)	1	–
12 Gb SAS/SATA RAID controllers				
7Y37A01082	AUNG	ThinkSystem RAID 530-8i PCIe 12Gb Adapter	1	1
4Y37A78834	BMFT	ThinkSystem RAID 540-8i PCIe Gen4 12Gb Adapter	1	1
4Y37A72482	BJHK	ThinkSystem RAID 5350-8i PCIe 12Gb Adapter	1	1
7Y37A01083	AUNH	ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter	1	1
4Y37A09722	B4RQ	ThinkSystem RAID 730-8i 2GB Flash PCIe 12Gb Adapter	1	1
7Y37A01084	AUNJ	ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter	1	1
4Y37A72483†	BJHL†	ThinkSystem RAID 9350-8i 2GB Flash PCIe 12Gb Adapter	1	1
7Y37A01085	AUNK	ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter	1	1
4Y37A09721	B31E	ThinkSystem RAID 930-16i 8GB Flash PCIe 12Gb Adapter	1	1
4Y37A09728	B8NY	ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter	1	1
4Y37A78600	BM35	ThinkSystem RAID 940-16i 4GB Flash PCIe Gen4 12Gb Adapter	1	1
4Y37A09730	B8NZ	ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Adapter	1	1
12 Gb SAS/SATA non-RAID HBAs				
7Y37A01088	AUNL	ThinkSystem 430-8i SAS/SATA 12Gb HBA	1	1
4Y37A78601	BM51	ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA	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]).
- Field upgrades to add this adapter also require a replacement system air duct. See the Field upgrades section for details. CTO orders that include this adapter must have base BNPS or BNPR selected. See the Models

section for information.

- For a comparison of the functions of the supported storage adapters, see the ThinkSystem RAID Adapter and HBA Reference: **https://lenovopress.com/lp1288-thinksystem-raid-adapter-and-hba-reference#sr530-support=SR530**

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 onboard Intel RSTe is not supported by virtualization hypervisors, including VMware vSphere (ESXi), Linux KVM, Xen, and Microsoft Hyper-V.
- The server supports the installation of two RAID flash power modules (supercaps), mounted on the underside of the system air baffle.
- This means that the server supports a maximum of two RAID 730- 8i 2GB, 930, 940, and 9350 adapters, including any external storage adapters.
- 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**
- Internal drive options
- The following tables list the drive options for internal storage of the server.
- 2.5-inch hot-swap drives:
- 2.5-inch hot-swap 12 Gb SAS HDDs
- 2.5-inch hot-swap 6 Gb SATA HDDs
- 2.5-inch hot-swap 24 Gb SAS SSDs
- 2.5-inch hot-swap 12 Gb SAS SSDs
- 2.5-inch hot-swap 6 Gb SATA SSDs
- 3.5-inch hot-swap drives:
- 3.5-inch hot-swap 12 Gb SAS HDDs
- 3.5-inch hot-swap 6 Gb SATA HDDs
- 3.5-inch hot-swap 24 Gb SAS SSDs
- 3.5-inch hot-swap 12 Gb SAS SSDs
- 3.5-inch hot-swap 6 Gb SATA SSDs
- **Simple-swap drives:** 3.5-inch simple-swap 6 Gb SATA HDDs

M.2 drives:

- **M.2** SATA drives
- **M.2** drive support: The use of M.2 drives requires an additional adapter as described in the M.2 drives

subsection.

- **SED support:** The tables include a column to indicate which drives support SED encryption. The encryption functionality can be disabled if needed. Note: Not all SED-enabled drives have “SED” in the description.

Table 25. 2.5-inch hot-swap 12 Gb SAS HDDs

Part number	Feature code	Description	SED support	Maximum Quantity
2.5-inch hot-swap HDDs – 12 Gb SAS 15K				
7XB7A00021	AULV	ThinkSystem 2.5″ 300GB 15K SAS 12Gb Hot Swap 512n HDD	No	8
7XB7A00022	AULW	ThinkSystem 2.5″ 600GB 15K SAS 12Gb Hot Swap 512n HDD	No	8
7XB7A00023	AULX	ThinkSystem 2.5″ 900GB 15K SAS 12Gb Hot Swap 512e HDD	No	8
2.5-inch hot-swap HDDs – 12 Gb SAS 10K				
7XB7A00025	AULZ	ThinkSystem 2.5″ 600GB 10K SAS 12Gb Hot Swap 512n HDD	No	8
7XB7A00026	AUM0	ThinkSystem 2.5″ 900GB 10K SAS 12Gb Hot Swap 512n HDD	No	8
7XB7A00027	AUM1	ThinkSystem 2.5″ 1.2TB 10K SAS 12Gb Hot Swap 512n HDD	No	8
7XB7A00028	AUM2	ThinkSystem 2.5″ 1.8TB 10K SAS 12Gb Hot Swap 512e HDD	No	8
7XB7A00069	B0YS	ThinkSystem 2.5″ 2.4TB 10K SAS 12Gb Hot Swap 512e HDD	No	8
2.5-inch hot-swap HDDs – 12 Gb NL SAS				
7XB7A00034	AUM6	ThinkSystem 2.5″ 1TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	8
7XB7A00035	AUM7	ThinkSystem 2.5″ 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	8
2.5-inch hot-swap SED HDDs – 12 Gb SAS 10K				
7XB7A00031	AUM5	ThinkSystem 2.5″ 600GB 10K SAS 12Gb Hot Swap 512n HDD SED	Support	8

Table 26. 2.5-inch hot-swap 6 Gb SATA HDDs

Part number	Feature code	Description	SED support	Maximum Quantity
2.5-inch hot-swap HDDs – 6 Gb NL SATA				
7XB7A00036	AUUE	ThinkSystem 2.5″ 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	8
7XB7A00037	ANUJ	ThinkSystem 2.5″ 2TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	8

Table 27. 2.5-inch hot-swap 24 Gb SAS SSDs

Part number	Feature code	Description	SED support	Maximum Quantity
2.5-inch hot-swap SSDs – 24 Gb SAS – Mixed Use/Mainstream (3-5 DWPD)				
4XB7A80340	BNW8	ThinkSystem 2.5″ PM1655 800GB Mixed Use SAS 24Gb HS SSD	Support	8
4XB7A80341	BNW9	ThinkSystem 2.5″ PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	Support	8
4XB7A80342	BNW6	ThinkSystem 2.5″ PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	Support	8
4XB7A80343	BP3K	ThinkSystem 2.5″ PM1655 6.4TB Mixed Use SAS 24Gb HS SSD	Support	8
2.5-inch hot-swap SSDs – 24 Gb SAS – Read Intensive/Entry/Capacity (<3 DWPD)				
4XB7A80318	BNWC	ThinkSystem 2.5″ PM1653 960GB Read Intensive SAS 24Gb HS SSD	Support	8
4XB7A80319	BOWE	ThinkSystem 2.5″ PM1653 1.92TB Read Intensive SAS 24Gb HS SSD	Support	8
4XB7A80320	BNWF	ThinkSystem 2.5″ PM1653 3.84TB Read Intensive SAS 24Gb HS SSD	Support	8
4XB7A80321	BP3E	ThinkSystem 2.5″ PM1653 7.68TB Read Intensive SAS 24Gb HS SSD	Support	8
4XB7A80322	BP3J	ThinkSystem 2.5″ PM1653 15.36TB Read Intensive SAS 24Gb HS SSD	Support	8
4XB7A80323	BP3D	ThinkSystem 2.5″ PM1653 30.72TB Read Intensive SAS 24Gb HS SSD	Support	8

Table 28. 2.5-inch hot-swap 12 Gb SAS SSDs

Part number	Feature code	Description	SED support	Maximum Quantity
2.5-inch hot-swap SSDs – 12 Gb SAS – Mixed Use/Mainstream (3-5 DWPD)				
4XB7A17062	B8HU	ThinkSystem 2.5″ PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD	No	8
4XB7A17063	B8J4	ThinkSystem 2.5″ PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	No	8
4XB7A17064	B8JD	ThinkSystem 2.5″ PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD	No	8
4XB7A17065	B8JA	ThinkSystem 2.5″ PM1645a 6.4TB Mainstream SAS 12Gb Hot Swap SSD	No	8
2.5-inch hot-swap SSDs – 12 Gb SAS – Read Intensive/Entry/Capacity (<3 DWPD)				
4XB7A38175	B91A	ThinkSystem 2.5″ PM1643a 960GB Entry SAS 12Gb Hot Swap SSD	No	8
4XB7A38176	B91B	ThinkSystem 2.5″ PM1643a 1.92TB Entry SAS 12Gb Hot Swap SSD	No	8
4XB7A17054	B91C	ThinkSystem 2.5″ PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD	No	8
4XB7A17055	B91D	ThinkSystem 2.5″ PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD	No	8
4XB7A17056	BC4R	ThinkSystem 2.5″ PM1643a 15.36TB Entry SAS 12Gb Hot Swap SSD	No	8

Table 29. 2.5-inch hot-swap 6 Gb SATA SSDs

Part number	Feature code	Description	SED support	Maximum Quantity
2.5-inch hot-swap SSDs – 6 Gb SATA – Mixed Use/Mainstream (3-5 DWPD)				
4XB7A17125	BA7Q	ThinkSystem 2.5″ S4620 480GB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A17126	BA4T	ThinkSystem 2.5″ S4620 960GB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A17127	BA4U	ThinkSystem 2.5″ S4620 1.92TB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A17128	BK7L	ThinkSystem 2.5″ S4620 3.84TB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A17087	B8J1	ThinkSystem 2.5″ 5300 240GB Mainstream SATA 6Gb Hot Swap SSD	No	8

4XB7A17088	B8HY	ThinkSystem 2.5″ 5300 480GB Mainstream SATA 6Gb Hot Swap SSD	No	8
4XB7A17089	B8J6	ThinkSystem 2.5″ 5300 960GB Mainstream SATA 6Gb Hot Swap SSD	No	8
4XB7A17090	B8JE	ThinkSystem 2.5″ 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD	No	8
4XB7A17091	B8J7	ThinkSystem 2.5″ 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD	No	8
4XB7A13633	B49L	ThinkSystem 2.5″ S4610 240GB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A13634	B49M	ThinkSystem 2.5″ S4610 480GB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A13635	B49N	ThinkSystem 2.5″ S4610 960GB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A13636	B49P	ThinkSystem 2.5″ S4610 1.92TB Mixed Use SATA 6Gb HS SSD	No	8
4XB7A13637	B49Q	ThinkSystem 2.5″ S4610 3.84TB Mixed Use SATA 6Gb HS SSD	No	8
2.5-inch hot-swap SSDs – 6 Gb SATA – Read Intensive/Entry (<3 DWPD)				
4XB7A72438	BM8B	ThinkSystem 2.5″ PM893 480GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A72439	BM8A	ThinkSystem 2.5″ PM893 960GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A72440	BM89	ThinkSystem 2.5″ PM893 1.92TB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A72441	BM88	ThinkSystem 2.5″ PM893 3.84TB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A72442	BM87	ThinkSystem 2.5″ PM893 7.68TB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A17072	B99D	ThinkSystem 2.5″ S4520 240GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A17101	BA7G	ThinkSystem 2.5″ S4520 480GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A17102	BA7H	ThinkSystem 2.5″ S4520 960GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A17103	BA7J	ThinkSystem 2.5″ S4520 1.92TB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A17104	BK77	ThinkSystem 2.5″ S4520 3.84TB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A17105	BK78	ThinkSystem 2.5″ S4520 7.68TB Read Intensive SATA 6Gb HS SSD	No	8

Part number	Feature code	Description	SED support	Maximum Quantity
4XB7A38271	BCTC	ThinkSystem 2.5″ Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A38272	BCTD	ThinkSystem 2.5″ Multi Vendor 480GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A38273	BCTE	ThinkSystem 2.5″ Multi Vendor 960GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A38274	BCTF	ThinkSystem 2.5″ Multi Vendor 1.92TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A38275	BCTG	ThinkSystem 2.5″ Multi Vendor 3.84TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A17075	B8HV	ThinkSystem 2.5″ 5300 240GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A17076	B8JM	ThinkSystem 2.5″ 5300 480GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A17077	B8HP	ThinkSystem 2.5″ 5300 960GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A17078	B8J5	ThinkSystem 2.5″ 5300 1.92TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A17079	B8JP	ThinkSystem 2.5″ 5300 3.84TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A17080	B8J2	ThinkSystem 2.5″ 5300 7.68TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A38185	B9AC	ThinkSystem 2.5″ 5210 960GB Entry SATA 6Gb Hot Swap QLC SSD	No	8
4XB7A38144	B7EW	ThinkSystem 2.5″ 5210 1.92TB Entry SATA 6Gb Hot Swap QLC SSD	No	8
4XB7A38145	B7EX	ThinkSystem 2.5″ 5210 3.84TB Entry SATA 6Gb Hot Swap QLC SSD	No	8
4XB7A38146	B7EY	ThinkSystem 2.5″ 5210 7.68TB Entry SATA 6Gb Hot Swap QLC SSD	No	8
4XB7A10247	B498	ThinkSystem 2.5″ S4510 240GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A10248	B499	ThinkSystem 2.5″ S4510 480GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A10249	B49A	ThinkSystem 2.5″ S4510 960GB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A13622	B49B	ThinkSystem 2.5″ S4510 1.92TB Read Intensive SATA 6Gb HS SSD	No	8

4XB7A13623	B49C	ThinkSystem 2.5″ S4510 3.84TB Read Intensive SATA 6Gb HS SSD	No	8
4XB7A10195	B34H	ThinkSystem 2.5″ PM883 240GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A10196	B34J	ThinkSystem 2.5″ PM883 480GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A10197	B34K	ThinkSystem 2.5″ PM883 960GB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A10198	B34L	ThinkSystem 2.5″ PM883 1.92TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A10199	B34M	ThinkSystem 2.5″ PM883 3.84TB Entry SATA 6Gb Hot Swap SSD	No	8
4XB7A10200	B4D2	ThinkSystem 2.5″ PM883 7.68TB Entry SATA 6Gb Hot Swap SSD	No	8

Table 30. 3.5-inch hot-swap 12 Gb SAS HDDs

Part number	Feature code	Description	SED support	Maximum Quantity
3.5-inch hot-swap HDDs – 12 Gb SAS 15K				
7XB7A00038	AUU2	ThinkSystem 3.5″ 300GB 15K SAS 12Gb Hot Swap 512n HDD	No	4
7XB7A00039	AUU3	ThinkSystem 3.5″ 600GB 15K SAS 12Gb Hot Swap 512n HDD	No	4
7XB7A00040	AUUC	ThinkSystem 3.5″ 900GB 15K SAS 12Gb Hot Swap 512e HDD	No	4
3.5-inch hot-swap HDDs – 12 Gb NL SAS				
7XB7A00042	AUU5	ThinkSystem 3.5″ 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	4
7XB7A00043	AUU6	ThinkSystem 3.5″ 4TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	4
7XB7A00044	AUU7	ThinkSystem 3.5″ 6TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
7XB7A00045	B0YR	ThinkSystem 3.5″ 8TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
7XB7A00046	AUUG	ThinkSystem 3.5″ 10TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
7XB7A00067	B117	ThinkSystem 3.5″ 12TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
4XB7A13906	B496	ThinkSystem 3.5″ 14TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
4XB7A13911	B7EZ	ThinkSystem 3.5″ 16TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
4XB7A38266	BCFP	ThinkSystem 3.5″ 18TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
4XB7A80353	BPKU	ThinkSystem 3.5″ 20TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	4
3.5-inch hot-swap SED HDDs – 12 Gb NL SAS				
7XB7A00047	AUUH	ThinkSystem 3.5″ 4TB 7.2K SAS 12Gb Hot Swap 512n HDD FIPS	Support	4

Table 31. 3.5-inch hot-swap 6 Gb SATA HDDs

Part number	Feature code	Description	SED support	Maximum Quantity
3.5-inch hot-swap HDDs – 6 Gb NL SATA				
7XB7A00049	AUUF	ThinkSystem 3.5″ 1TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	4
7XB7A00050	AUUD	ThinkSystem 3.5″ 2TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	4
7XB7A00051	AUU8	ThinkSystem 3.5″ 4TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	4
7XB7A00052	AUUA	ThinkSystem 3.5″ 6TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
7XB7A00053	AUU9	ThinkSystem 3.5″ 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
7XB7A00054	AUUB	ThinkSystem 3.5″ 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
7XB7A00068	B118	ThinkSystem 3.5″ 12TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
4XB7A13907	B497	ThinkSystem 3.5″ 14TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
4XB7A13914	B7F0	ThinkSystem 3.5″ 16TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
4XB7A38130	BCFH	ThinkSystem 3.5″ 18TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4
4XB7A80354	BPKV	ThinkSystem 3.5″ 20TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	4

Table 32. 3.5-inch hot-swap 24 Gb SAS SSDs

Part number	Feature code	Description	SED support	Maximum Quantity
3.5-inch hot-swap SSDs – 24 Gb SAS – Mixed Use/Mainstream (3-5 DWPD)				
4XB7A80344	BNW7	ThinkSystem 3.5″ PM1655 800GB Mixed Use SAS 24Gb HS SSD	Support	4
4XB7A80345	BNWA	ThinkSystem 3.5″ PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	Support	4
4XB7A80346	BNWB	ThinkSystem 3.5″ PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	Support	4
4XB7A80347	BP3G	ThinkSystem 3.5″ PM1655 6.4TB Mixed Use SAS 24Gb HS SSD	Support	4
3.5-inch hot-swap SSDs – 24 Gb SAS – Read Intensive/Entry/Capacity (<3 DWPD)				
4XB7A80324	BNWD	ThinkSystem 3.5″ PM1653 960GB Read Intensive SAS 24Gb HS SSD	Support	4
4XB7A80325	BNWG	ThinkSystem 3.5″ PM1653 1.92TB Read Intensive SAS 24Gb HS SSD	Support	4
4XB7A80326	BNWH	ThinkSystem 3.5″ PM1653 3.84TB Read Intensive SAS 24Gb HS SSD	Support	4
4XB7A80327	BP3F	ThinkSystem 3.5″ PM1653 7.68TB Read Intensive SAS 24Gb HS SSD	Support	4
4XB7A80328	BP3H	ThinkSystem 3.5″ PM1653 15.36TB Read Intensive SAS 24Gb HS SSD	Support	4

Table 33. 3.5-inch hot-swap 12 Gb SAS SSDs

Part number	Feature code	Description	SED support	Maximum Quantity
3.5-inch hot-swap SSDs – 12 Gb SAS – Mixed Use/Mainstream (3-5 DWPD)				
4XB7A17066	B8HT	ThinkSystem 3.5″ PM1645a 800GB Mainstream SAS 12Gb Hot Swap SSD	No	4
4XB7A17043	B8JN	ThinkSystem 3.5″ PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	No	4
4XB7A17067	B8JK	ThinkSystem 3.5″ PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD	No	4
4XB7A17068	B8JG	ThinkSystem 3.5″ PM1645a 6.4TB Mainstream SAS 12Gb Hot Swap SSD	No	4
3.5-inch hot-swap SSDs – 12 Gb SAS – Read Intensive/Entry/Capacity (<3 DWPD)				
4XB7A17058	B91E	ThinkSystem 3.5″ PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD	No	4
4XB7A17059	BEVK	ThinkSystem 3.5″ PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD	No	4

Table 34. 3.5-inch hot-swap 6 Gb SATA SSDs

Part number	Feature code	Description	SED support	Maximum Quantity
3.5-inch hot-swap SSDs – 6 Gb SATA – Mixed Use/Mainstream (3-5 DWPD)				
4XB7A17137	BA4W	ThinkSystem 3.5″ S4620 480GB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A17138	BA4X	ThinkSystem 3.5″ S4620 960GB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A17139	BA4Y	ThinkSystem 3.5″ S4620 1.92TB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A17140	BK7P	ThinkSystem 3.5″ S4620 3.84TB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A17096	B8JL	ThinkSystem 3.5″ 5300 240GB Mainstream SATA 6Gb Hot Swap SSD	No	4

4XB7A17097	B8JF	ThinkSystem 3.5″ 5300 480GB Mainstream SATA 6Gb Hot Swap SSD	No	4
4XB7A17098	B8J0	ThinkSystem 3.5″ 5300 960GB Mainstream SATA 6Gb Hot Swap SSD	No	4
4XB7A17099	B8HR	ThinkSystem 3.5″ 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD	No	4
4XB7A17100	B8HX	ThinkSystem 3.5″ 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD	No	4
4XB7A13639	B49R	ThinkSystem 3.5″ S4610 240GB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A13640	B49S	ThinkSystem 3.5″ S4610 480GB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A13641	B49T	ThinkSystem 3.5″ S4610 960GB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A13642	B49U	ThinkSystem 3.5″ S4610 1.92TB Mixed Use SATA 6Gb HS SSD	No	4
4XB7A13643	B49V	ThinkSystem 3.5″ S4610 3.84TB Mixed Use SATA 6Gb HS SSD	No	4
3.5-inch hot-swap SSDs – 6 Gb SATA – Read Intensive/Entry (<3 DWPD)				
4XB7A17118	BA7K	ThinkSystem 3.5″ S4520 240GB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A17119	BA7L	ThinkSystem 3.5″ S4520 480GB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A17120	BA7M	ThinkSystem 3.5″ S4520 960GB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A17121	BA7N	ThinkSystem 3.5″ S4520 1.92TB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A17122	BK7F	ThinkSystem 3.5″ S4520 3.84TB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A17123	BK7G	ThinkSystem 3.5″ S4520 7.68TB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A38276	BCTH	ThinkSystem 3.5″ Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A38277	BCTJ	ThinkSystem 3.5″ Multi Vendor 480GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A38278	BCTK	ThinkSystem 3.5″ Multi Vendor 960GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A38279	BCTL	ThinkSystem 3.5″ Multi Vendor 1.92TB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A38281	BCTM	ThinkSystem 3.5″ Multi Vendor 3.84TB Entry SATA 6Gb Hot Swap SSD	No	4

4XB7A17081	B8JB	ThinkSystem 3.5″ 5300 240GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17082	B8J9	ThinkSystem 3.5″ 5300 480GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17083	B8JC	ThinkSystem 3.5″ 5300 960GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17084	B8HZ	ThinkSystem 3.5″ 5300 1.92TB Entry SATA 6Gb Hot Swap SSD	No	4

Part number	Feature code	Description	SED support	Maximum Quantity
4XB7A17085	B8HQ	ThinkSystem 3.5″ 5300 3.84TB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17086	B8J3	ThinkSystem 3.5″ 5300 7.68TB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A13625	B49D	ThinkSystem 3.5″ S4510 240GB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A13626	B49E	ThinkSystem 3.5″ S4510 480GB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A13627	B49F	ThinkSystem 3.5″ S4510 960GB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A13628	B49G	ThinkSystem 3.5″ S4510 1.92TB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A13629	B49H	ThinkSystem 3.5″ S4510 3.84TB Read Intensive SATA 6Gb HS SSD	No	4
4XB7A17176	B6TM	ThinkSystem 3.5″ PM883 240GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17177	B6TN	ThinkSystem 3.5″ PM883 480GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17178	B6TP	ThinkSystem 3.5″ PM883 960GB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17179	B6JY	ThinkSystem 3.5″ PM883 1.92TB Entry SATA 6Gb Hot Swap SSD	No	4
4XB7A17180	B6JZ	ThinkSystem 3.5″ PM883 3.84TB Entry SATA 6Gb Hot Swap SSD	No	4

Table 37. M.2 SATA drives

Part number	Feature code	Description	SED support	Maximum Quantity
M.2 SSDs – 6 Gb SATA – Read Intensive/Entry (<3 DWPD)				
7N47A00129	AUUL	ThinkSystem M.2 32GB SATA 6Gbps Non-Hot Swap SSD	No	2
7N47A00130	AUUV	ThinkSystem M.2 128GB SATA 6Gbps Non-Hot Swap SSD	No	2
4XB7A17071	B8HS	ThinkSystem M.2 5300 240GB SATA 6Gbps Non-Hot Swap SSD	No	2
4XB7A17073	B919	ThinkSystem M.2 5300 480GB SATA 6Gbps Non-Hot Swap SSD	No	2

Optical drives

The server supports the external USB optical drive listed in the following table.
Table 38. External optical drive

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

- The drive is based on the Lenovo Slim DVD Burner DB65 drive and supports the following formats: DVDRAM, DVD-RW, DVD+RW, DVD+R, DVD-R, DVD-ROM, DVD-R DL, CD-RW, CD-R, CD-ROM.

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 the 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.

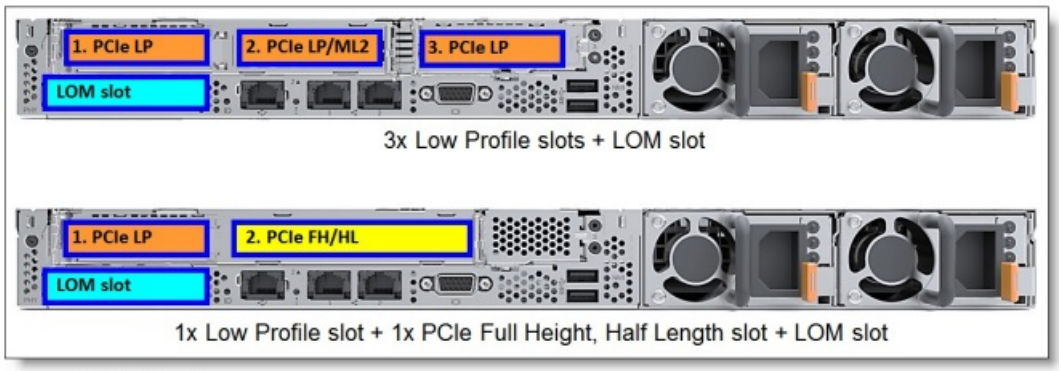

Figure 7. Slot locations

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 39. 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	–

Riser Card 1	Riser Card 2	Slots available for use	
		Processor 1	Processor 2
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 40. PCIe riser cards and miscellaneous options

Part number	Feature code	Description	Maximum quantity
x8 Riser Card 1 options (Riser Card 1 supplies slots 1 and 2)			
7XH7A02682	AUWC	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+LP Riser 1 Kit	1
7XH7A05893	None*	ThinkSystem SR530/SR570/SR630 x8/x16 PCIe LP+FH Riser 1 Kit	1
7XH7A05892	AV0X	ThinkSystem SR530/SR570 x8/x8ML2 PCIe LP+LP Riser 1 Kit	1
Riser Card 2 option (Riser Card 2 supplies slot 3)			
7XH7A02685	AUWA	ThinkSystem SR530/SR570/SR630 x16 PCIe LP Riser 2 Kit	1
7XH7A05891	AV0W	ThinkSystem SR530/SR570 x8 PCIe LP Riser 2 Kit	1
Serial port upgrade kit			
4Z17A80446	BMNJ	ThinkSystem COM Port Upgrade Kit v2	1
7Z17A02577	AUSL	ThinkSystem COM Port Upgrade Kit	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 (4Z17A80446 or 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 by the SR530 server

Table 41. Network adapters

Part number	Feature code	Description	Max qty	I/O slots supported
LOM cards – 1 GB Ethernet				
7ZT7A00544	AUG	ThinkSystem 1Gb 2-port RJ45 LOM	1	LOM slot
LOM cards – 10 GB Ethernet				
7ZT7A00548	AUKL	ThinkSystem 10Gb 2-port Base-T LOM	1	LOM slot
7ZT7A00546	AUKJ	ThinkSystem 10Gb 2-port SFP+ LOM	1*	LOM slot
ML2 adapters – 10 Gb Ethernet				
7ZT7A00497	AUKQ	Broadcom NX-E ML2 10Gb 2-Port Base-T Ethernet Adapter	1	2 (ML2)
01CV770	AU7Z	Emulex VFA5.2 ML2 2×10 GbE SFP+ Adapter and FCoE/iSCSI SW	1*	2 (ML2)
00JY940	ATRH	Intel X710-DA2 ML2 2x10GbE SFP+ Adapter	1*	2 (ML2)
PCIe Low Profile adapters – 1 Gb Ethernet				
7ZT7A00482	AUZX	Broadcom 5720 1GbE RJ45 2-Port PCIe Ethernet Adapter	3	1, 2, 3
7ZT7A00484	AUZV	Broadcom 5719 1GbE RJ45 4-Port PCIe Ethernet Adapter	3	1, 2, 3
7ZT7A00533	AUZZ	ThinkSystem I350-F1 PCIe 1Gb 1-Port SFP Ethernet Adapter	3	1, 2, 3
7ZT7A00534	AUZY	ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	3	1, 2, 3
7ZT7A00535	AUZW	ThinkSystem I350-T4 PCIe 1Gb 4-Port RJ45 Ethernet Adapter	3	1, 2, 3

PCIe Low Profile adapters – 10 Gb Ethernet				
7ZT7A00496	AUKP	Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter	3	1, 2, 3
00AG570	AT7S	Emulex VFA5.2 2×10 GbE SFP+ PCIe Adapter	3*	1, 2, 3
00AG580	AT7T	Emulex VFA5.2 2×10 GbE SFP+ Adapter and FCoE/iSCSI SW	3*	1, 2, 3
00MM860	ATPX	Intel X550-T2 Dual Port 10GBase-T Adapter	3	1, 2, 3
7ZT7A00537	AUKX	Intel X710-DA2 PCIe 10Gb 2-Port SFP+ Ethernet Adapter	3*	1, 2, 3
4XC7A79699	BMXB	ThinkSystem Intel X710-T4L 10GBase-T 4-Port PCIe Ethernet Adapter	3	1, 2, 3
4XC7A08225	B31G	QLogic QL41134 PCIe 10Gb 4-Port Base-T Ethernet Adapter	3	1, 2, 3
PCIe Full Height adapters – 10 Gb Ethernet				
7ZT7A00493	AUKN	Emulex OCe14104B-NX PCIe 10Gb 4-Port SFP+ Ethernet Adapter	1*	2
PCIe Low Profile adapters – 25 Gb Ethernet				
4XC7A08238	B5T0	Broadcom 57414 10/25GbE SFP28 2-port PCIe Ethernet Adapter	3*	1, 2, 3
PCIe Low Profile adapters – Omni-Path				
00WE027	AU0B	Intel OPA 100 Series Single-port PCIe 3.0 x16 HFA	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 adapter product guide

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 transceiver or cable selected.
- For more information, see the list of Product Guides in the Ethernet Adapters category:

http://lenovopress.com/servers/options/ethernet#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 42. SAS RAID adapters and HBAs for external storage

Part number	Feature code	Description	Maximum quantity	I/O slots supported
12 Gbps SAS RAID adapters				
7Y37A01087	AUNQ	ThinkSystem RAID 930-8e 4GB Flash PCIe 12Gb Adapter	2	1, 2, 3
4Y37A78836	BNWJ	ThinkSystem RAID 940-8e 4GB Flash PCIe Gen4 12Gb Adapter	2	1, 2, 3
12 Gbps SAS HBAs				
7Y37A01090	AUNR	ThinkSystem 430-8e SAS/SATA 12Gb HBA	2	1, 2, 3
7Y37A01091	ANN	ThinkSystem 430-16e SAS/SATA 12Gb HBA	2	1, 2, 3
4Y37A09724	B8P7	ThinkSystem 440-16e SAS/SATA PCIe Gen4 12Gb HBA	3	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 server supports the installation of two RAID flash power modules (supercaps), mounted on the underside of the system air baffle.
- This means that the server supports a maximum of two RAID 730- 8i 2GB, 930, 940, and 9350 adapters, including any internal storage adapter.
- Mixing storage adapter families: The following HBA/RAID adapter combinations are supported:
- X30 external adapters with other X30 adapters (internal or external)
- X40 external adapters with other X40 adapters (internal or external)
- X40 external adapters with X350 internal adapters (support planned for November 2022, 22C)

The following HBA/RAID adapter combinations are not supported:

- X30 adapters (internal or external) with X40 adapters (internal or external)
- X30 adapters (internal or external) with X350 internal adapters
- For a comparison of the functions of the supported external storage adapters, see the ThinkSystem RAID

Adapter and HBA Reference:

- https://lenovopress.com/lp1288#sr530-support=SR530&internal-or-external-ports=External
- 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 43. Fibre Channel HBAs

Part number	Feature code	Description	Maximum quantity	I/O slots supported
16 Gb Fibre Channel – PCIe				
01CV830	ATZU	Emulex 16Gb Gen6 FC Single-port HBA	3	1, 2, 3
01CV840	ATZV	Emulex 16Gb Gen6 FC Dual-port HBA	3	1, 2, 3
01CV750	ATZB	QLogic 16Gb Enhanced Gen5 FC Single-port HBA	3	1, 2, 3
01CV760	ATZC	QLogic 16Gb Enhanced Gen5 FC Dual-port HBA	3	1, 2, 3
8 Gb Fibre Channel – PCIe (available only in PRC and Asia Pacific)				
4XC7A08221	B0X0	Emulex LPe12002-M8-L PCIe 8Gb 2-Port SFP+ FC HBA	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.
- Models with one processor include four system fans, and models with two processors include six system fans.
- The installation of a 2nd processor requires an extra cooling fan be installed. For CTO orders, fans are derived

by the configurator.

- For field upgrades, 1st Gen Xeon processor option part numbers include this fan however 2nd Gen Xeon processor options do not included the fan and it must be ordered separately using the SR530 Fan Option Kit (4F17A12354).

Table 44. Cooling options

Part number	Feature code	Description	Maximum quantity
4F17A12354	AV0N	ThinkSystem SR530 Fan Option Kit (for 2nd Gen processors only) Includes 2 system fans	1

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 45. Power supplies

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

Power cords

- Line cords and rack power cables with C13 connectors can be ordered as listed in the following table.
- 110V customers: If you plan to use the 1100W power supply with a 110V power source, select a power cable that is rated above 10A. Power cables that are rated at 10A or below are not supported with 110V power.

Table 46. Power cords

Documents / Resources

	Lenovo ThinkSystem SR530 2 Socket 1U Rack Server [pdf] User Guide ThinkSystem SR530 2 Socket 1U Rack Server, ThinkSystem SR530, 2 Socket 1U Rack Server, 1U Rack Server, Rack Server, Server

References

- Home - Data Center Support - Lenovo Support US
- servers :: thinksystem :: sr530 :: 7x07 Lenovo Data Center Support - Lenovo Support US
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- Lenovo Capacity Planner (LCP) - Lenovo Support US
- Lenovo XClarity Energy Manager (LXEM) - Lenovo Support US
- DCSC - Data Center Solution Configurator
- DCSC - Data Center Solution Configurator
- Services Availability Locator
- Lenovo Storage D1212 and D1224 Drive Enclosures Product Guide > Lenovo Press
- Lenovo Storage D3284 External High Density Drive Expansion Enclosure Product Guide > Lenovo Press
- Energy Star 3.0 Certifications for ThinkSystem Servers > Lenovo Press
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- RAID Adapters > Lenovo Press
- Lenovo XClarity Administrator Product Guide > Lenovo Press
- Lenovo Statement of Limited Warranty for Data Center Group (DCG) Servers, System Storage and Networking - Lenovo Support US
- Home - Data Center Support - Lenovo Support CN
- Lenovo XClarity Essentials (ToolsCenter) - Redirect - Lenovo Support US
- Lenovo Infrastructure Solutions Group Services Agreement - Lenovo Support US
- DCSC - Data Center Solution Configurator
- ThinkSystem SR530 Datasheet (withdrawn product) > Lenovo Press

- Lenovo ThinkSystem SR530 Server (Xeon SP Gen 1) Product Guide (withdrawn product) > Lenovo Press
- 3D Tour: ThinkSystem SR530 Server (withdrawn product) > Lenovo Press
- ThinkSystem M.2 Drives and M.2 Adapters Product Guide > Lenovo Press
- Intel Xeon Scalable Processor Reference for Lenovo ThinkSystem Servers > Lenovo Press
- Reduce E-Waste and Grow Your Bottom Line with Lenovo Asset Recovery Services (ARS) > Lenovo Press
- Reduce E-Waste and Grow Your Bottom Line with Lenovo Asset Recovery Services (ARS) > Lenovo Press
- Lenovo Rack Cabinet Reference > Lenovo Press
- Lenovo ThinkSystem RAID Adapter and HBA Reference > Lenovo Press
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- Backup Units > Lenovo Press
- Power Distribution Units > Lenovo Press
- User Manual