Lenovo ThinkSystem SR655 Server
Product Guide (withdrawn product)

The Lenovo ThinkSystem SR655 is a 1-socket 2U server that features the AMD EPYC 7002 "Rome" and AMD EPYC 7003 "Milan" families of processors. With up to 64 cores per processor and support for the PCIe 4.0 standard for I/O, the SR655 offers the ultimate in single-socket server performance. With up to 128 PCIe lanes, the server is ideal for workloads that can take advantage of GPU processing and high-performance NVMe drives.

Suggested uses: AI Inference, VDI, OLTP, Analytics, software-defined storage, rack-based workstations

Figure 1. Lenovo ThinkSystem SR655

Did you know?

By using a high-performance server with only one processor installed, you can take advantage of lower software costs when the software licensing is using a per-socket model.

The SR655 has been designed to take advantage of the features of the EPYC 7002 and 7003 processors, such as the full performance of 280W 64-core processors, support for 3200 MHz memory and PCIe Gen 4.0 support. Competitive servers that are based on the older EPYC 7001 "Naples" designs may not be able to offer these performance features.

Key features

Combining performance and flexibility, the SR655 server is a great choice for enterprises of all sizes. The server offers a broad selection of drive and slot configurations and offers high performance features that industries such as finance, healthcare and telco need. Outstanding reliability, availability, and serviceability (RAS) and high-efficiency design can improve your business environment and can help save operational costs.

Scalability and performance

The SR655 offers numerous features to boost performance, improve scalability and reduce costs:

- Supports the AMD EPYC 7002 and EPYC 7003 families family of processors
- Supports processors with up to 64 cores and 128 threads, core speeds of up to 4.1 GHz, and TDP ratings of up to 280W.
- Support for up to 16 TruDDR4 memory DIMMs, with 8 memory channels and 2 DIMMs per channel. With 1 DIMM installed per channel (8 DIMMs total), memory operates at up to 3200 MHz. With 2 DIMMs per channel (16 DIMMs total), memory operating at up to 2933 MHz.
- Using 128GB 3DS DIMMs, the server supports up to 2TB of system memory.
- Supports 2 double-width GPUs up to 300W each, or 6 single-width GPUs up to 75W each. A 6:1 ratio of GPUs to CPUs means substantial processing power is available with just one CPU.
- Supports up to 32x 2.5-inch hot-swap drive bays, by using combinations of front-accessible (up to 24 bays), mid-accessible (up to 8), and rear-accessible (up to 4) drive bays.
- Supports 3.5-inch drive bays for lower-cost high-capacity storage. 2.5-inch and 3.5-inch drive bays can be mixed in several combinations.
- Supports 16x SATA drives using the onboard SATA controller (no additional adapter needed), enabling lower cost, high capacity storage solution for cold storage workloads.
- Supports up to 28x NVMe drives without oversubscription of PCIe lanes (1:1 connectivity), or up to 32x NVMe drives with a 2:1 oversubscription. The use of NVMe drives maximizes drive I/O performance, in terms of throughput, bandwidth, and latency.
- Supports high-speed RAID controllers from Broadcom providing 12 Gb SAS connectivity to the drive backplanes. A variety of RAID adapters are available, with cache and support for up to 24 drives on a single controller.
- Supports M.2 drives for convenient operating system boot functions or data storage. Available M.2 adapters support either one M.2 drive or two M.2 drives in a RAID 1 configuration for performance and reliability.
- The server has a dedicated industry-standard OCP 3.0 small form factor (SFF) slot, with a PCIe 4.0 x16 interface, supporting a variety of Ethernet network adapters. Simple-swap mechanism with thumbscrews and pull-tab enables tool-less installation and removal of the adapter. Supports shared BMC network sideband connectivity to enable out-of-band systems management.
- The server offers PCI Express 4.0 I/O expansion capabilities that doubles the theoretical maximum bandwidth of PCIe 3.0 (16GT/s in each direction for PCIe 4.0, compared to 8 GT/s with PCIe 3.0). A PCIe 4.0 x16 slot provides 64 GB/s bandwidth, enough to support a 400GbE network connection.
- A total of up to 9 PCIe 4.0 slots (8 with rear access, 1 internal for a RAID adapter) plus a slot dedicated to the OCP adapter.

Availability and serviceability

The SR655 provides many features to simplify serviceability and increase system uptime:

- The server uses ECC memory and supports memory RAS features including Single Device Data Correction (SDDC, also known as Chipkill), Patrol/Demand Scrubbing, DRAM Address Command Parity with Replay, and DRAM Uncorrected ECC Error Retry.
- The server offers hot-swap drives, supporting RAID redundancy for data protection and greater system uptime.
- The M.2 SATA RAID Boot Adapter supports RAID-1 which enables two installed M.2 drives to be configured as a redundant pair.
- The server has up to two hot-swap redundant power supplies and six hot-swap redundant fans to provide availability for business-critical applications.
- The power-source-independent light path diagnostics uses LEDs to lead the technician to failed (or failing) components, which simplifies servicing, speeds up problem resolution, and helps improve system availability.
- Solid-state drives (SSDs) offer more reliability than traditional mechanical HDDs for greater uptime.
- The built-in ASPEED AST2500 baseboard management controller (BMC) continuously monitors system parameters, triggers alerts, and performs recovery actions in case of failures to minimize downtime.
- Proactive Platform Alerts: Voltage regulators, memory, fans, power supplies, server ambient and subcomponent temperatures. Alerts can be surfaced through the BMC to managers such as Lenovo XClarity Administrator. These proactive alerts let you take appropriate actions in advance of possible failure, thereby increasing server uptime and application availability.
- Web-based ThinkSystem System Manager (TSM) provides remote access to the BMC for remote management.
- Lenovo XClarity Provisioning Manager Lite (LXPM Lite) tool can be used to install an operating system on the server and perform system diagnostics.
- Three-year or one-year customer-replaceable unit and onsite limited warranty, 9 x 5 next business day. Optional service upgrades are available.

Manageability and security

Systems management features simplify local and remote management of the SR655:

- Supports Lenovo XClarity Provisioning Manager Lite (LXPM Lite) for system setup and firmware upgrades.
- An integrated industry-standard Unified Extensible Firmware Interface (UEFI) enables improved setup, configuration, and updates, and simplifies error handling.
- Support for industry standard management protocols, IPMI 2.0, SNMP 3.0, Redfish REST API, serial console via IPMI
- An integrated hardware Trusted Platform Module (TPM) supporting TPM 2.0 enables advanced cryptographic functionality, such as digital signatures and remote attestation.
- Administrator and power-on passwords help protect from unauthorized access to the server.
- Support for Lenovo XClarity Energy Manager, which captures real-time power and temperature data from the server and integrates with Redfish-based applications to provide automated controls to lower energy costs.
- Supports AMD Secure Root-of-Trust, Secure Run and Secure Move features to minimize potential attacks and protect data as the OS is booted, as applications are run and as applications are migrated from server to server.
- Supports Secure Boot to ensure only a digitally signed operating system can be used.
- Industry-standard Advanced Encryption Standard (AES) NI support for faster, stronger encryption.

Energy efficiency

The SR655 offers the following energy-efficiency features to save energy, reduce operational costs, and increase energy availability:

- Energy-efficient planar components help lower operational costs.
- High-efficiency power supplies with 80 PLUS Platinum and Titanium certifications
- Low-voltage 1.2 V DDR4 memory offers energy savings compared to 1.35 V and 1.5 V DDR3 DIMMs.
- Solid-state drives (SSDs) consume as much as 80% less power than traditional spinning 2.5-inch HDDs.
- The server uses hexagonal ventilation holes, which can be grouped more densely than round holes, providing more efficient airflow through the system and thus keeping your system cooler.
- Optional Lenovo XClarity Energy Manager provides power and thermal monitoring to help achieve lower heat output and reduced cooling needs.

Components and connectors

The following figure shows the front of the server.
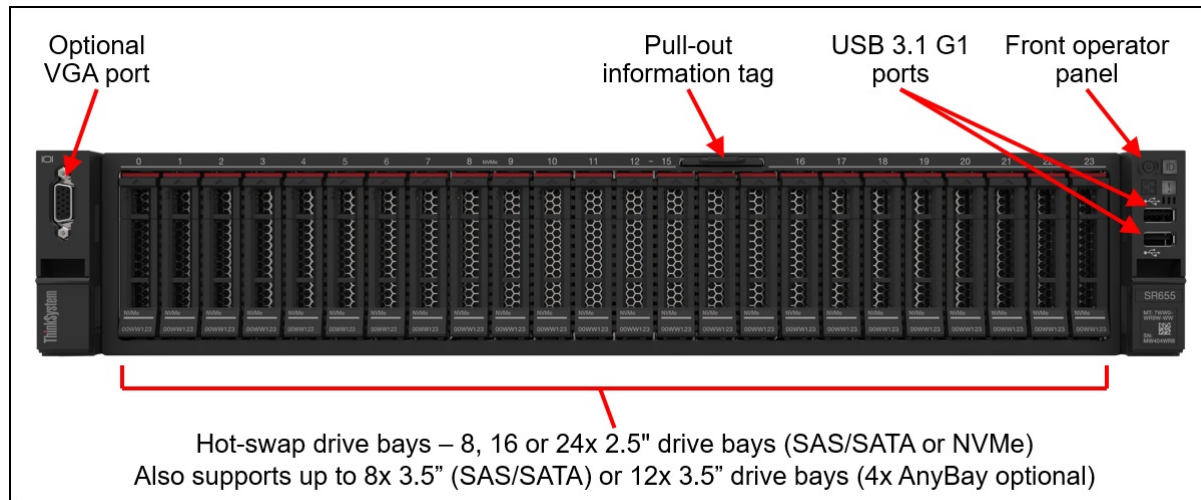

Figure 2. Front view of the Lenovo ThinkSystem SR655

The following figure shows the components visible from the rear of the server. As shown, there are three different configurations available
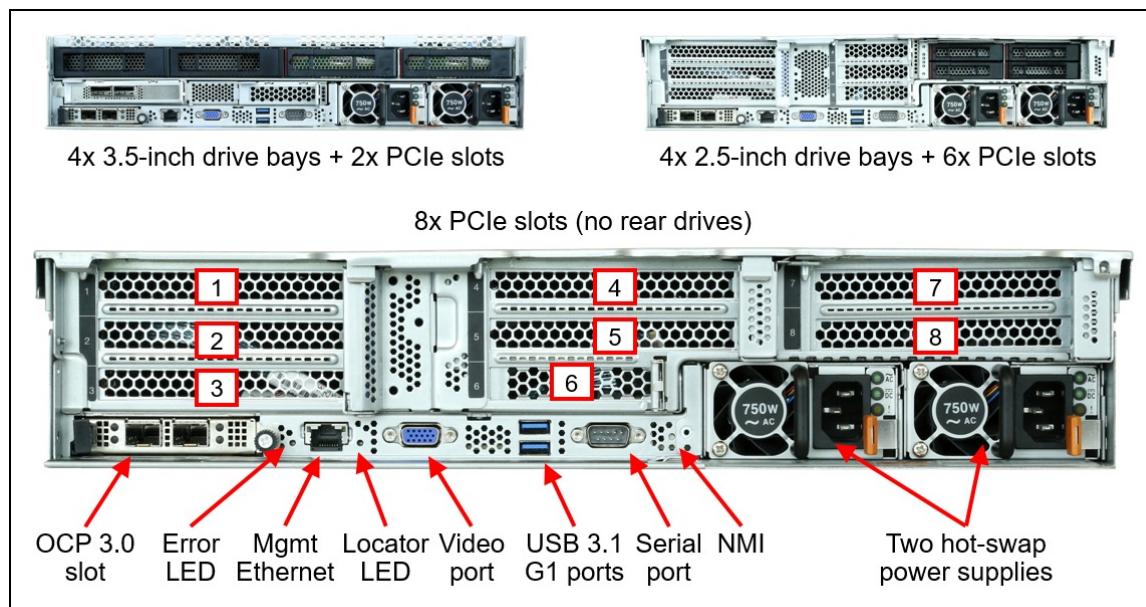

Figure 3. Rear view of the Lenovo ThinkSystem SR655

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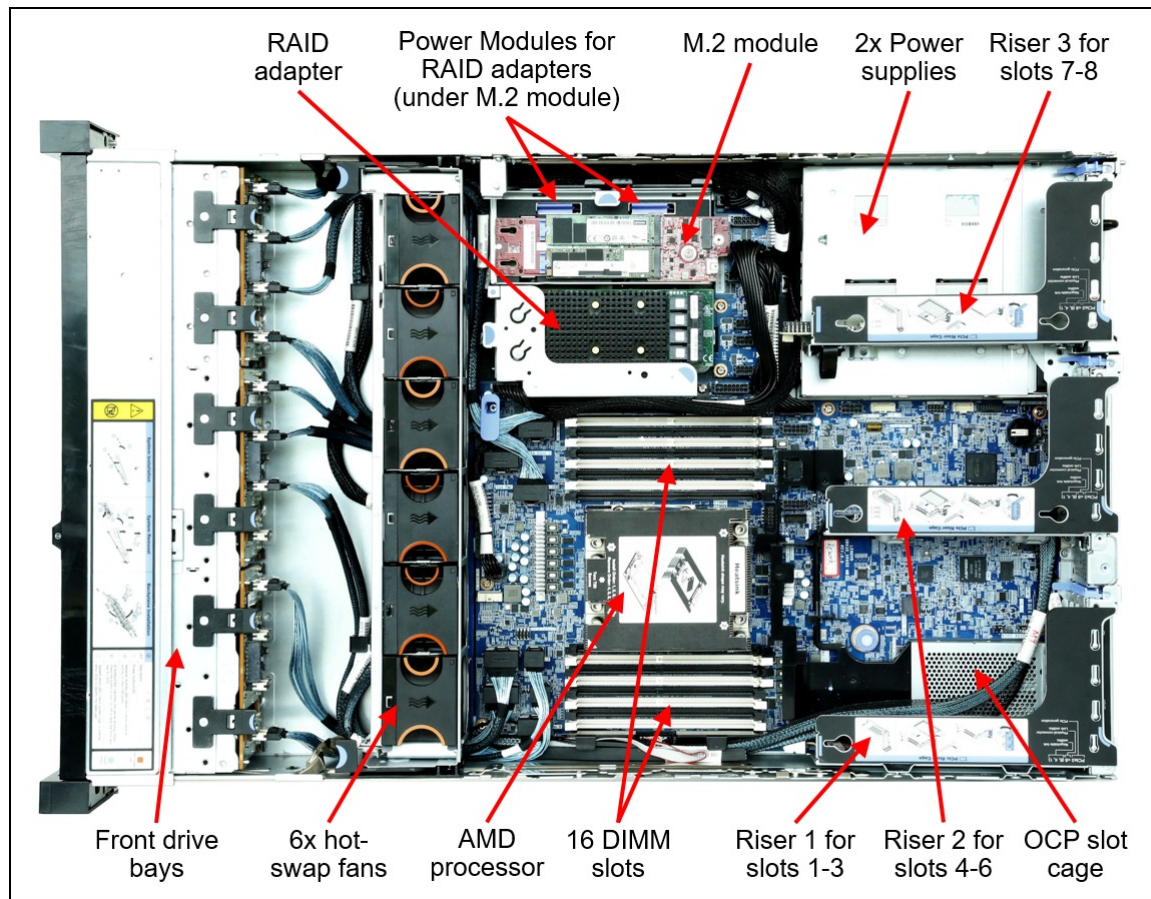

Figure 4. Internal view of the Lenovo ThinkSystem SR655

System architecture

The following figure shows the architectural block diagram of the SR655, showing the major components and their connections.
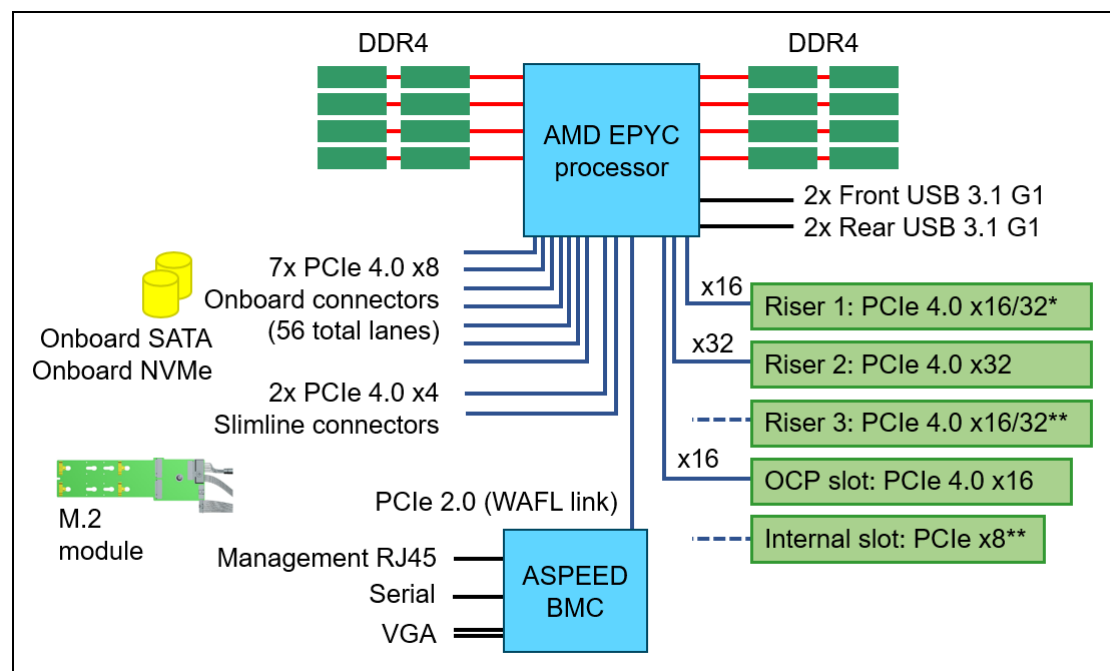

Figure 5. SR655 system architectural block diagram

* Riser 1 has a x16 system board connection. For 32 lanes, the riser receives 16 lanes from two x8 onboard slimline connectors via cables
** Riser 3 and Internal slot are connected to onboard connectors; no system board slots

Standard specifications

The following table lists the standard specifications.

Table 1. Standard specifications

Components	Specification
Machine types	7Y00 - 1 year warranty 7Z01 - 3 year warranty
Form factor	2U rack.
Processor	One AMD EPYC 7002 Series processor (formerly codenamed "Rome") or AMD EPYC 7003 Series processors (formerly codenamed "Milan"). Supports processors up to 64 cores, core speeds of up to 4.1 GHz, and TDP ratings of up to 280W.
Memory	16 DIMM slots. The processor has 8 memory channels, with 2 DIMMs per channel. Lenovo TruDDR4 RDIMMs are supported. DIMMs are available in two speeds: 3200 MHz and 2933 MHz. With 3200 MHz memory, the server supports a 3200 MHz memory bus speed at 1 DIMM per channel (DPC) and 2933 MHz at 2 DPC. With 2933 MHz memory, the server supports a 2933 MHz memory bus speed at both 1 and 2 DPC.
Memory maximum	Up to 2TB with 16x 128GB 3DS RDIMMs
Persistent memory	Not supported.

Components	Specification
Memory protection	ECC, SDDC, Patrol/Demand Scrubbing, DRAM Address Command Parity with Replay, DRAM Uncorrected ECC Error Retry, Post Package Repair
Disk drive bays	Up to 20x 3.5-inch or 32x 2.5-inch hot-swap drive bays*: • Front: up to 12x 3.5-inch or 24x 2.5-inch, hot-swap bays • Mid (internal): up to 4x 3.5-inch or 8x 2.5-inch, hot-swap bays • Rear: up to 4x 3.5-inch or 4x 2.5-inch hot-swap bays With 2.5-inch drive bays, mid (internal) bays and rear drives are mutually exclusive. SeeSupported drive bay combinations for details. Mid bays are hot-swap drive bays and are accessible by removing the top cover of the server. 4x 3.5-inch front drive bays can be configured as AnyBay supporting SAS, SATA or NVMe. 2.5-inch drive bays can be configured as NVMe, supporting 28x NVMe drives with direct connections (no oversubscription), or 32x NVMe drives with 2:1 oversubscription. * **Note**: The server supports at most 32 drives, even though there are 36 physical 2.5-inch drive bays.

Maximum internal storage	• 2.5-inch drives:
	  ○ 983.04TB using 32x 30.72TB 2.5-inch SAS/SATA SSDs
	  ○ 737.28TB using 24x 30.72TB 2.5-inch NVMe SSDs
	  ○ 76.8TB using 32x 2.4TB 2.5-inch HDDs
	
	• 3.5-inch drives:
	  ○ 440TB using 20x 22TB 3.5-inch HDDs
	  ○ 307.2TB using 20x 15.36TB 3.5-inch SAS/SATA SSDs
	  ○ 51.2TB using 4x 12.8TB 3.5-inch NVMe SSDs

Storage controller	• Onboard SATA supporting up to 16 SATA drives (no RAID)
	
	• 12 Gb SAS/SATA RAID adapters:
	  ○ RAID 530i (cacheless) supports RAID 0, 1, 10, 5, 50
	  ○ RAID 730-8i with 1GB cache supports RAID 0, 1, 10, 5, 50
	  ○ RAID 730-8i with 2GB flash-backed cache supports RAID 0, 1, 10, 5, 50, 6, 60
	  ○ RAID 930-8i with 2GB flash-backed cache supports RAID 0, 1, 10, 5, 50, 6, 60
	  ○ RAID 930-16i and 24i with 4GB or 8GB flash-backed cache supports RAID 0, 1, 10, 5, 50, 6, 60
	
	• 12 Gb SAS/SATA non-RAID: 430-8i and 430-16i HBAs

Optical drive bays	No internal optical drive.
Tape drive bays	No internal backup drive.
Network interfaces	Dedicated OCP 3.0 SFF slot with PCIe 4.0 x16 host interface. Supports a variety of 2-port and 4-port adapters with 1GbE, 10GbE and 25GbE network connectivity. One port can optionally be shared with the ASPEED management processor for Wake-on-LAN and NC-SI support.

Components	Specification
PCI Expansion slots	A total of up to 9 PCIe 4.0 slots (8 with rear access, 1 internal for a RAID adapter) plus a slot dedicated to the OCP adapter. Slot availability is based on riser selection. Slot length is dependent on the use of a mid-chassis drive cage: If the mid drive cage is present then slots are half-length; if the mid drive cage is not present, then slots are full-length. - Riser 1: Slots 1, 2 and 3 - all FHHL or FHFL (16 or 32 lanes) - Option 1*: 1=x16, 2=x8, 3=x8 - Option 2*: 1=x16, 2=x16 (no slot 3) - Option 3: 3=x16 (no slot 1 or slot 2) - Option 4: 1=x16 (no slot 2 or slot 3) - Riser 2: Slots 4, 5, and 6 - slot size varies (32 lanes) - Option 1: 4=x16, 5=x8, 6=x8 - Option 2: 4=x16, 5=x16 (no slot 6) - Option 3: 6=x16 (no slot 4 or slot 5) - Riser 3: Slots 7 and 8 - both FHHL or FHFL (16 or 32 lanes) - Option 1*: 7=x8, 8=x8 - Option 2*: 7=x16, 8=x16 - Slot 9: Internal PCIe 4.0 x8 low-profile slot for internal drive controller * The use of 32 lanes with Riser 1 or the use of Riser 3 imposes restrictions on the use of the onboard SATA controller or the use of the M.2 Module or both. See the I/O expansion section for details.
Ports	Front: Two USB 3.1 G1 (5 Gb/s) ports, optional VGA port. Rear: USB 3.1 G1 (5 Gb/s) ports, one VGA video port, one DB-9 serial port, and one RJ-45 1GbE systems management port. Internal: Optional M.2 module supporting up to two M.2 drives (for OS boot and drive storage support; not available in all configurations).
Cooling	Five or six N+1 redundant single-rotor hot swap 60 mm fans, configuration dependent. One fan integrated in each power supply.
Power supply	Up to two hot-swap redundant AC power supplies (all 80 PLUS Platinum certification): 550 W, 750 W, 1100 W and 1600 W AC options, supporting 220 V AC. 550 W, 750 W and 1100 W options also support 110V input supply. In China only, all power supply options support 240 V DC. Also available is a 1100W power supply with a -48V DC input.
Video	Onboard graphics with 512 MB memory with 2D hardware accelerator, integrated into the ASPEED AST2500 BMC management processor. Maximum resolution is 1920x1200 at 60Hz, 32bpp
Hot-swap parts	Drives, power supplies, and fans.
Systems management	ASPEED AST2500 embedded management processor, XClarity Provisioning Manager Lite (LXPM Lite) for system setup and firmware upgrades. XClarity Administrator centralized infrastructure management, and XClarity Energy Manager centralized server power management. Light path diagnostics for local failure detection and reporting.
Security features	Power-on password, administrator's password, Trusted Platform Module (TPM), supporting TPM 2.0. In China only, optional Nationz TPM 2.0. Optional lockable front security bezel. Optional chassis intrusion switch.
Operating systems supported	Microsoft Windows Server, Microsoft Windows 10 & 11, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi. See the Operating system support section for specifics.
Limited warranty	Three-year or one-year (model dependent) customer-replaceable unit and onsite limited warranty with 9x5 next business day (NBD).

Components	Specification
Service and support	Optional service upgrades are available through Lenovo Services: 4-hour or 2-hour response time, 6-hour fix time, 1-year or 2-year warranty extension, software support for Lenovo hardware and some third-party applications.
Dimensions	Width: 445 mm (17.5 in.), height: 87 mm (3.4 in.), depth: 764 mm (30.1 in.). See Physical and electrical specifications for details.
Weight	Maximum: 35.4 kg (78.0 lb)

Models

ThinkSystem SR655 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 types of base CTO models are available for the SR655 as listed in the columns in the following table:

- General purpose base CTO models are for general business (non-HPC) and is selectable by choosing **General Purpose** mode in DCSC.
- AI and HPC base models are intended for Artificial Intelligence (AI) and High Performance Computing (HPC) configurations and solutions are enabled using the **AI & HPC Hardware - ThinkSystem Hardware** mode in DCSC. These configurations, along with Lenovo EveryScale Solutions, can also be built using System x and Cluster Solutions Configurator (x-config). **Tip**: Some HPC and AI models are not listed in DCSC and can only be configured in x-config.

Controlled GPU models: The "Controlled GPU" base CTO models listed in the table are the only models that support high-performance GPUs and accelerators. These models are classified under US Government ECCN regulations and have limited market and customer availability. All other base models do not support high-performance GPUs.

Preconfigured server models may also be available for the SR655, however these are region-specific; that is, each region may define their own server models, and not all server models are available in every region.

The following table lists the base CTO models of the ThinkSystem SR655 server.

Table 2. Base CTO models

Machine Type/Model General purpose	Machine Type/Model for AI and HPC	Description
7Z01CTO1WW	7Z01CTOLWW	ThinkSystem SR655 - 3yr Warranty
7Z01CTOAWW	7Z01CTOHWW	ThinkSystem SR655 - 3yr Warranty with Controlled GPU
7Y00CTO1WW	7Y00CTOLWW	ThinkSystem SR655 - 1yr Warranty

The SR655 can now run Windows 10 and Windows 11, however only a subset of adapters and drives can be installed. For ease of configuration, the following Base CTO models have been announced to assist building a configuration that can be used with the client operating systems. For more information, see the Windows 10 and Windows 11 section.

Table 3. Base CTO models for SR655 with Windows 10 and Windows 11

Machine Type/Model General purpose	Description
7Z01CTO2WW	ThinkSystem SR655 Workstation - 3 year Warranty
7Y00CTO2WW	ThinkSystem SR655 Workstation - 1 year Warranty

Models of the SR655 are defined based on whether the server has 2.5-inch drive bays at the front (called the 24x 2.5" chassis) or whether it has 3.5-inch drive bays at the front (called the 12x 3.5" chassis). For models, the feature codes for these chassis bases are as listed in the following table.

Table 4. Chassis base feature codes

Feature code	Description
B5VK	ThinkSystem SR655 12x3.5" Chassis
B5VJ	ThinkSystem SR655 24x2.5" Chassis

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 EMEA countries
- Models for Hong Kong, Taiwan, Korea (HTK)
- Models for India
- Models for Japan
- Models for Latin American countries (except Brazil)
- Models for USA and Canada

Refer to the Specifications section for information about standard features of the server.

Models for Australia and New Zealand

Table 5. Models for Australia and New Zealand

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
TopSeller models with a 3-year model (machine type 7Z01)										
7Z01A04HAU	7232P 8C 120W 3.1G	1x 32GB 3200	930-8i	8x 2.5" SAS Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 750W HS (Y)	Yes	6x Perf	Slide
7Z01A04LAU	7232P 8C 120W 3.1G	1x 16GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Fric
7Z01A04RAU	7232P 8C 120W 3.1G	1x 16GB 3200	530-8i	8x 2.5" SAS Open bay	Open	0, 0, 1	1x 750W HS (Y)	Yes	6x Std	Fric
7Z01A04SAU	7232P 8C 120W 3.1G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Fric
7Z01A04QAU	7262 8C 155W 3.2G	1x 32GB 3200	930-8i	8x 2.5" SAS Open bay	Open	0, 0, 1	1x 750W HS (Y)	Yes	6x Std	Fric
7Z01A04TAU	7262 8C 155W 3.2G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Fric
7Z01A04JAU	7282 16C 120W 2.4G	1x 32GB 3200	930-8i	8x 2.5" SAS Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 750W HS (Y)	Yes	6x Perf	Slide
7Z01A04PAU	7282 16C 120W 2.4G	1x 32GB 3200	930-8i	8x 2.5" SAS Open bay	Open	0, 0, 1	1x 750W HS (Y)	Yes	6x Std	Fric
7Z01A04UAU	7282 16C 120W 2.4G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Fric
7Z01A02MAU	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z01A02XAU	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
7Z01A04NAU	7302P 16C 155W 3.0G	1x 32GB 3200	930-8i	8x 2.5" SAS Open bay	Open	0, 0, 1	1x 750W HS (Y)	Yes	6x Std	Fric
7Z01A04VAU	7302P 16C 155W 3.0G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Fric
7Z01A02LAU	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A039AU	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A04MAU	7402P 24C 180W 2.8G	1x 32GB 3200	930-8i	8x 2.5" SAS Open bay	Open	0, 0, 1	1x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A04WAU	7402P 24C 180W 2.8G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Perf	Fric
7Z01A030AU	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A031AU	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02UAU	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02VAU	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for South East Asian countries (ASEAN)

Table 6. Models for South East Asian countries (ASEAN)

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
TopSeller models with a 3-year model (machine type 7Z01)										
7Z01A036SG	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z01A03ASG	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z01A02TSG	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A033SG	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02QSG	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02YSG	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A034SG	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A03BSG	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for Brazil

Table 7. Models for Brazil

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
Standard models with a 3-year model (machine type 7Z01)										
7Z01A03UBR	7262 8C 155W 3.2G	1x 16GB 2933	530-8i	8x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 750W HS (Y)	Yes	6x Std	Slide CMA
7Z01A03SBR	7302P 16C 155W 3.0G	1x 16GB 2933	530-8i	8x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 750W HS (Y)	Yes	6x Std	Slide CMA
7Z01A03QBR	7402 24C 180W 2.8G	1x 32GB 2933	730-8i 1GB	8x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 1100W HS (Y)	Yes	6x Perf	Slide CMA
7Z01A03TBR	7502P 32C 180W 2.5G	1x 32GB 2933	930-16i 4GB	16x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 1100W HS (Y)	Yes	6x Perf	Slide CMA

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for EMEA countries

Table 8. Models for EMEA countries

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
Standard models with a 3-year model (machine type 7Z01)										
Models with third-generation AMD EPYC processors										
7Z01A055EA	7313P 16C 155W 3.0G	1x 32GB 3200	940-8i 4GB	8x 2.5" SAS Open bay	Open	3, 2, 1	1x 750W HS (Y)	Opt	6x Std	Slide
7Z01A056EA	7343 16C 190W 3.2G	1x 32GB 3200	940-8i 4GB	8x 2.5" SAS Open bay	Open	3, 2, 1	1x 750W HS (Y)	Opt	6x Perf	Slide
7Z01A054EA	7453 28C 225W 2.8G	1x 32GB 3200	940-8i 4GB	8x 2.5" SAS Open bay	Open	3, 2, 1	1x 1100W (Y)	Opt	6x Perf	Slide
7Z01A052EA	7543P 32C 225W 2.8G	1x 32GB 3200	940-8i 4GB	8x 2.5" SAS Open bay	Open	3, 2, 1	1x 1100W (Y)	Opt	6x Perf	Slide
7Z01A058EA	7713P 64C 225W 2.0G	1x 32GB 3200	940-8i 4GB	8x 2.5" SAS Open bay	Open	3, 2, 1	1x 1100W (Y)	Opt	6x Perf	Slide
Models with second-generation AMD EPYC processors										
7Z01A04AEA	7232P 8C 120W 3.1G	1x 32GB 2933	930-8i	8x 2.5" SAS Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 750W HS (Y)	Opt	6x Perf	Slide
7Z01A04BEA	7232P 8C 120W 3.1G	1x 32GB 2933	Onboard AHCI	12x 3.5" SAS Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 1100W HS (Y)	Opt	6x Perf	Slide
7Z01A02BEA	7262 8C 155W 3.2G	1x 32GB 3200	Onboard AHCI	12x 3.5" SAS Open bay	Open	Open	1x 750W HS (Y)	Opt	5x Std	Slide
7Z01A02DEA	7262 8C 155W 3.2G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Opt	5x Std	Slide
7Z01A049EA	7282 16C 120W 2.4G	1x 32GB 2933	930-8i	8x 2.5" SAS Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 750W HS (Y)	Opt	6x Perf	Slide

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
7Z01A04CEA	7282 16C 120W 2.4G	1x 32GB 2933	930-16i 4GB	12x 3.5" SAS Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 1100W HS (Y)	Opt	6x Perf	Slide
7Z01A02AEA	7302P 16C 155W 3.0G	1x 32GB 3200	Onboard AHCI	12x 3.5" SAS Open bay	Open	Open	1x 750W HS (Y)	Opt	5x Std	Slide
7Z01A02CEA	7302P 16C 155W 3.0G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Opt	5x Std	Slide
7Z01A029EA	7452 32C 155W 2.35G	1x 32GB 3200	Onboard AHCI	12x 3.5" SAS Open bay	Open	Open	1x 750W HS (Y)	Opt	5x Std	Slide
7Z01A048EA	7452 32C 155W 2.35G	1x 32GB 3200	Option	Optional 2.5" Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 750W HS (Y)	Opt	6x Perf	Slide
7Z01A02EEA	7502P 32C 180W 2.5G	1x 32GB 3200	Option	16x 2.5" NVMe Open bay	Open	Open	1x 1100W HS (Y)	Opt	5x Perf	Slide
7Z01A02HEA	7502P 32C 180W 2.5G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Opt	5x Perf	Slide
7Z01A04EEA	7542 32C 225W 2.9G	1x 32GB 3200	Option	Optional 2.5" Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 1100W HS (Y)	Opt	6x Perf	Slide
7Z01A04FEA	7552 48C 200W 2.2G	1x 32GB 3200	Option	Optional 2.5" Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 750W HS (Y)	Opt	6x Perf	Slide
7Z01A04DEA	7642 48C 225W 2.4G	1x 32GB 3200	Option	Optional 2.5" Open bay, 1x M.2 RAID	Open	1, 2, 1	1x 1100W HS (Y)	Opt	6x Perf	Slide
7Z01A02FEA	7702P 64C 200W 2.0G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 1100W HS (Y)	Opt	5x Perf	Slide
7Z01A02GEA	7742 64C 225W 2.25G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 1100W HS (Y)	Opt	5x Perf	Slide

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for Hong Kong, Taiwan, Korea (HTK)

Table 9. Models for Hong Kong, Taiwan, Korea (HTK)

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
TopSeller models with a 3-year model (machine type 7Z01)										
7Z011002CN	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z01A035CN	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z011003CN	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02KCN	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z011000CN	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02SCN	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z011001CN	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02ZCN	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for India

Table 10. Models for India

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
TopSeller models with a 3-year model (machine type 7Z01)										
7Z01A02PSG	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z01A02WSG	7302P 16C 155W 3.0G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Std	Fric
7Z01A032SG	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A038SG	7402P 24C 180W 2.8G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02RSG	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A037SG	7502P 32C 180W 2.5G	1x 32GB 3200	730-8i 2GB	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02JSG	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric
7Z01A02NSG	7702P 64C 200W 2.0G	1x 32GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	2x 750W HS (Y)	Yes	6x Perf	Fric

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for Japan

Table 11. Models for Japan

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
TopSeller models with a 3-year model (machine type 7Z01)										
7Z01A03GJP	7262 8C 155W 3.2G	1x 16GB 3200	530-8i	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	1x 750W HS (N)	Opt	6x Std	Slide
7Z01A03MJP	7262 8C 155W 3.2G	1x 16GB 3200	530-8i	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	1x 750W HS (N)	Opt	6x Std	Slide
7Z01A03HJP	7302P 16C 155W 3.0G	1x 16GB 3200	530-8i	8x 3.5" SAS Open bay	4x1Gb 5719	1, 2, 1	1x 750W HS (N)	Opt	6x Std	Slide
7Z01A03KJP	7302P 16C 155W 3.0G	1x 16GB 3200	530-8i	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	1x 750W HS (N)	Opt	6x Std	Slide
7Z01A03FJP	7502P 32C 180W 2.5G	1x 16GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	1x 750W HS (N)	Opt	6x Perf	Slide
7Z01A03NJP	7702P 64C 200W 2.0G	1x 16GB 3200	730-8i 2GB	8x 2.5" SAS Open bay	4x1Gb 5719	1, 2, 1	1x 750W HS (N)	Opt	6x Perf	Slide

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for Latin American countries (except Brazil)

Table 12. Models with a 3-year warranty for Latin American countries (except Brazil)

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
Standard models with a 3-year model (machine type 7Z01)										
7Z01A050LA	7232P 8C 120W 3.1G	1x 16GB 2933	730-8i 1GB	8x 2.5" SAS Open bay	4x1Gb 5719	3, 2, 0	1x 750W HS (Y)	Yes	5x Std	Slide
7Z01A03XLA	7262 8C 155W 3.2G	1x 16GB 2933	530-8i	8x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 750W HS (Y)	Yes	6x Std	Slide CMA
7Z01A04ZLA	7272 12C 120W 2.6G	1x 16GB 2933	730-8i 1GB	8x 2.5" SAS Open bay	4x1Gb 5719	3, 2, 0	1x 750W HS (Y)	Yes	5x Std	Slide
7Z01A03YLA	7302P 16C 155W 3.0G	1x 16GB 2933	530-8i	8x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 750W HS (Y)	Yes	6x Std	Slide CMA
7Z01A03ZLA	7402 24C 180W 2.8G	1x 32GB 2933	730-8i 1GB	8x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 1100W HS (Y)	Yes	6x Perf	Slide CMA
7Z01A040LA	7502P 32C 180W 2.5G	1x 32GB 2933	930-16i 4GB	16x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 1100W HS (Y)	Yes	6x Perf	Slide CMA
7Z01A041LA	7702P 64C 200W 2.0G	1x 64GB 2933	930-16i 4GB	16x 2.5" SAS Open bay	4x1Gb 5719	2, 6, 0	1x 1100W HS (Y)	Yes	6x Perf	Slide CMA

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Models for USA and Canada

Table 13. Models for USA and Canada

Model	AMD EPYC processor†	Memory	RAID	Drive bays	OCP	Slots*	Power supplies (cords)	Front VGA	Fans	Rail kit
Standard models with a 3-year model (machine type 7Z01)										
Models with 3rd-generation AMD EPYC processors										
7Z01A05FNA	7203P 8C 120W 2.8G	1x 32GB 3200	930-16i 4GB	16x 2.5" SAS Open bay	Open	2, 0, 0	2x 1100W (Y)	Yes	5x Std	Slide
7Z011004NA	7203P 8C 120W 2.8G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 1100W (Y)	Yes	5x Std	Slide
7Z01A05ENA	7303P 16C 130W 2.4G	1x 32GB 3200	930-16i 4GB	16x 2.5" SAS Open bay	Open	2, 0, 0	2x 1100W (Y)	Yes	5x Std	Slide
7Z011005NA	7303P 16C 130W 2.4G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 1100W (Y)	Yes	5x Std	Slide
Models with 2nd-generation AMD EPYC processors										
7Z01A04GNA	7282 16C 120W 2.4G	1x 16GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Slide
7Z01A03CNA	7302P 16C 155W 3.0G	1x 16GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Std	Slide
7Z01A03ENA	7402P 24C 180W 2.8G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Perf	Slide
7Z01A053NA	7402P 24C 180W 2.8G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Perf	Slide
7Z01A03JNA	7502P 32C 180W 2.5G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Perf	Slide
7Z01A03LNA	7702P 64C 200W 2.0G	1x 32GB 3200	Option	Optional 2.5" Open bay	Open	Open	1x 750W HS (Y)	Yes	5x Perf	Slide

† Processor description: AMD EPYC model, number of cores, thermal design power (TDP), core frequency
* Slots are listed as (x, y, z) where x = number of rear-accessible x16 slots, y = number of rear-accessible x8 slots, z = number of internal x8 slots

Processors

The SR655 supports processors in the AMD EPYC family of processors. The server supports one processor.

- Processor options
- Processor features
- UEFI operating modes

Processor options

The table below lists the supported AMD processors.

All supported processors have the following characteristics:

- Third and second-generation AMD EPYC processors (formerly codenamed "Milan" and "Rome" respectively)
- 7 nm process technology
- Eight DDR4 memory channels
- 128 PCIe 4.0 I/O lanes

Part numbers: Processors do not include an option part number because there are no field upgrades supported.

Table 14. Processor options for the SR655

Feature code	Description
Third-generation AMD EPYC processors	
BY56	ThinkSystem AMD EPYC 7203 8C 120W 2.8GHz Processor
BY57	ThinkSystem AMD EPYC 7203P 8C 120W 2.8GHz Processor
BF7H	ThinkSystem AMD EPYC 72F3 8C 180W 3.7GHz Processor
BY58	ThinkSystem AMD EPYC 7303 16C 130W 2.4GHz Processor
BY59	ThinkSystem AMD EPYC 7303P 16C 130W 2.4GHz Processor
BF76	ThinkSystem AMD EPYC 7313 16C 155W 3.0GHz Processor
BF7B	ThinkSystem AMD EPYC 7313P 16C 155W 3.0GHz Processor
BF7E	ThinkSystem AMD EPYC 7343 16C 190W 3.2GHz Processor
BF7D	ThinkSystem AMD EPYC 73F3 16C 240W 3.5GHz Processor
BF78	ThinkSystem AMD EPYC 7413 24C 180W 2.65GHz Processor
BF72	ThinkSystem AMD EPYC 7443 24C 200W 2.85GHz Processor
BF79	ThinkSystem AMD EPYC 7443P 24C 200W 2.85GHz Processor
BF74	ThinkSystem AMD EPYC 7453 28C 225W 2.75GHz Processor
BF7G	ThinkSystem AMD EPYC 74F3 24C 240W 3.2GHz Processor
BF7A	ThinkSystem AMD EPYC 7513 32C 200W 2.6GHz Processor
BF77	ThinkSystem AMD EPYC 7543 32C 225W 2.8GHz Processor
BF71	ThinkSystem AMD EPYC 7543P 32C 225W 2.8GHz Processor
BF7F	ThinkSystem AMD EPYC 75F3 32C 280W 2.95GHz Processor
BGQ5	ThinkSystem AMD EPYC 7643 48C 225W 2.3GHz Processor
BY5A	ThinkSystem AMD EPYC 7643P 48C 225W 2.3GHz Processor
BF75	ThinkSystem AMD EPYC 7663 56C 240W 2.0GHz Processor
BY5B	ThinkSystem AMD EPYC 7663P 56C 240W 2.0GHz Processor
BF7C	ThinkSystem AMD EPYC 7713 64C 225W 2.0GHz Processor

Feature code	Description
BF70	ThinkSystem AMD EPYC 7713P 64C 225W 2.0GHz Processor
BF73	ThinkSystem AMD EPYC 7763 64C 280W 2.45GHz Processor
Second-generation AMD EPYC processors	
B766	ThinkSystem AMD EPYC 7232P 8C 120W 3.1GHz Processor
B6VU	ThinkSystem AMD EPYC 7252 8C 120W 3.1GHz Processor
B6TS	ThinkSystem AMD EPYC 7262 8C 155W 3.2GHz Processor
BCE9	ThinkSystem AMD EPYC 7F32 8C 180W 3.7GHz Processor
B767	ThinkSystem AMD EPYC 7272 12C 120W 2.9GHz Processor
B6VZ	ThinkSystem AMD EPYC 7282 16C 120W 2.8GHz Processor
B6TV	ThinkSystem AMD EPYC 7302 16C 155W 3.0GHz Processor
B6VV	ThinkSystem AMD EPYC 7302P 16C 155W 3.0GHz Processor
BCE8	ThinkSystem AMD EPYC 7F52 16C 240W 3.5GHz Processor
B6W0	ThinkSystem AMD EPYC 7352 24C 155W 2.3GHz Processor
B6VW	ThinkSystem AMD EPYC 7402 24C 180W 2.8GHz Processor
B6TT	ThinkSystem AMD EPYC 7402P 24C 180W 2.8GHz Processor
BCEA	ThinkSystem AMD EPYC 7F72 24C 240W 3.2GHz Processor
B6TU	ThinkSystem AMD EPYC 7452 32C 155W 2.35 GHz Processor
B5XG	ThinkSystem AMD EPYC 7502 32C 180W 2.5GHz Processor
B6VX	ThinkSystem AMD EPYC 7502P 32C 180W 2.5GHz Processor
BABP	ThinkSystem AMD EPYC 7532 32C 200W 2.4GHz Processor
B6W2	ThinkSystem AMD EPYC 7542 32C 225W 2.9GHz Processor
B6W1	ThinkSystem AMD EPYC 7552 48C 200W 2.2GHz Processor
B6W3	ThinkSystem AMD EPYC 7642 48C 225W 2.3GHz Processor
BABN	ThinkSystem AMD EPYC 7662 64C 225W 2.0GHz Processor
B6TR	ThinkSystem AMD EPYC 7702 64C 200W 2.0GHz Processor
B6VY	ThinkSystem AMD EPYC 7702P 64C 200W 2.0GHz Processor
B5XF	ThinkSystem AMD EPYC 7742 64C 225W 2.25 GHz Processor
BAVP	ThinkSystem AMD EPYC 7H12 64C 280W 2.6GHz Processor

Processor features

The following table lists the features of the supported processors.

P suffix: Processor models with a P suffix are designated as single-socket processors. They have identical features to the non-P equivalent processors.

The following table lists the features of the supported processors.

Table 15. Processor specifications

EPYC model**	Cores / Threads	Base Frequency	Max Boost Frequency†	L3 Cache	Memory channels	Memory bus	TDP
Third-generation AMD EPYC processors							
7203 / 7203P	8 / 16	2.8GHz	3.4 GHz	64 MB	8	3200 MHz	120W
72F3	8 / 16	3.7 GHz	4.1 GHz	256 MB	8	3200 MHz	180 W

EPYC model**	Cores / Threads	Base Frequency	Max Boost Frequency†	L3 Cache	Memory channels	Memory bus	TDP
7303 / 7303P	16 / 32	2.4GHz	3.4 GHz	64 MB	8	3200 MHz	130W
7313 / 7313P	16 / 32	3.0 GHz	3.7 GHz	128 MB	8	3200 MHz	155 W
7343	16 / 32	3.2 GHz	3.9 GHz	128 MB	8	3200 MHz	190 W
73F3	16/ 32	3.5 GHz	4.0 GHz	256 MB	8	3200 MHz	240 W
7413	24 / 48	2.65 GHz	3.6 GHz	128 MB	8	3200 MHz	180 W
7443 / 7443P	24 / 48	2.85 GHz	4.0 GHz	128 MB	8	3200 MHz	200 W
7453	28 / 56	2.75 GHz	3.45 GHz	64 MB	8	3200 MHz	225 W
74F3	24 / 48	3.2 GHz	4.0 GHz	256 MB	8	3200 MHz	240 W
7513	32 / 64	2.6 GHz	3.65 GHz	128 MB	8	3200 MHz	200 W
7543 / 7543P	32 / 64	2.8 GHz	3.7 GHz	256 MB	8	3200 MHz	225 W
75F3	32 / 64	2.95 GHz	4.0 GHz	256 MB	8	3200 MHz	280 W
7643 / 7643P	48 / 96	2.3 GHz	3.6 GHz	256 MB	8	3200 MHz	225 W
7663 / 7663P	56 / 112	2.0 GHz	3.5 GHz	256 MB	8	3200 MHz	225 W
7713 / 7713P	64 / 128	2.0 GHz	3.675 GHz	256 MB	8	3200 MHz	225 W
7763	64 / 128	2.45 GHz	3.5 GHz	256 MB	8	3200 MHz	280 W
Second-generation AMD EPYC processors							
7232P	8 / 16	3.1 GHz	3.2 GHz	32 MB	8	3200 MHz*	120 W
7252	8 / 16	3.1 GHz	3.2 GHz	64 MB	8	3200 MHz*	120 W
7262	8 / 16	3.2 GHz	3.4 GHz	128 MB	8	3200 MHz	155W
7F32	8 / 16	3.7 GHz	3.9 GHz	128 MB	8	3200 MHz	180W
7272	12 / 24	2.9 GHz	3.2 GHz	64 MB	8	3200 MHz*	120 W
7282	16 / 32	2.8 GHz	3.2 GHz	64 MB	8	3200 MHz*	120 W
7302 / 7302P	16 / 32	3.0 GHz	3.3 GHz	128 MB	8	3200 MHz	155 W
7F52	16 / 32	3.5 GHz	3.9 GHz	256 MB	8	3200 MHz	240W
7352	24 / 48	2.3 GHz	3.2 GHz	128 MB	8	3200 MHz	155 W
7402 / 7402P	24 / 48	2.8 GHz	3.35 GHz	128 MB	8	3200 MHz	180 W
7F72	24 / 48	3.2 GHz	3.7 GHz	192 MB	8	3200 MHz	240W
7452	32 / 64	2.35 GHz	3.35 GHz	128 MB	8	3200 MHz	155 W
7502 / 7502P	32 / 64	2.5 GHz	3.35 GHz	128 MB	8	3200 MHz	180 W
7532	32 / 64	2.4 GHz	3.3 GHz	256 MB	8	3200 MHz	200W
7542	32 / 64	2.9 GHz	3.4 GHz	128 MB	8	3200 MHz	225 W
7552	48 / 96	2.2 GHz	3.3 GHz	192 MB	8	3200 MHz	200 W
7642	48 / 96	2.3 GHz	3.3 GHz	256 MB	8	3200 MHz	225 W
7662	64 / 128	2.0 GHz	3.3 GHz	256 MB	8	3200 MHz	225W
7702 / 7702P	64 / 128	2.0 GHz	3.35 GHz	256 MB	8	3200 MHz	200 W
7742	64 / 128	2.25 GHz	3.4 GHz	256 MB	8	3200 MHz	225 W
7H12	64 / 128	2.6 GHz	3.3 GHz	256 MB	8	3200 MHz	280W

† The maximum single-core frequency at with the processor is capable of operating
* This processor supports 8 memory channels at 3200 MHz, however performance is optimized for 4 channels at 2666 MHz
** Processors with a P suffix are single-socket capable processors

UEFI operating modes

The SR655 offers preset operating modes that affect energy consumption and performance. These modes are a collection of predefined low-level UEFI settings that simplify the task of tuning the server to suit your business and workload requirements.

The following table lists the feature codes that allow you to specify the mode you wish to preset in the factory for CTO orders.

UK and EU customers: For compliance with the ERP Lot9 regulation, you should select feature BFYA. For some systems, you may not be able to make a selection, in which case, it will be automatically derived by the configurator.

Table 16. UEFI operating mode presets in DCSC

Feature code	Description
BFYA	Operating mode selection for: "Maximum Efficiency Mode"
BFYB	Operating mode selection for: "Maximum Performance Mode"

The preset modes for the SR655 are as follows:

- **Maximum Efficiency Mode** (feature BFYA): Maximizes performance/watt efficiency while maintaining reasonable performance
- **Maximum Performance Mode** (feature BFYB): Achieves maximum performance but with higher power consumption and lower energy efficiency.

For details about these preset modes, and all other performance and power efficiency UEFI settings offered in the SR655, see the paper "Tuning UEFI Settings for Performance and Energy Efficiency on AMD Processor-Based ThinkSystem Servers", available from https://lenovopress.lenovo.com/lp1267.

Memory options

The SR655 uses Lenovo TruDDR4 memory operating at up to 3200 MHz. The processors have 8 memory channels and support 2 DIMMs per channel, for a total of 16 DIMMs. The server supports up to 2TB of memory using 16x 128 GB 3DS RDIMMs.

The server supports these memory DIMMs:

- 2933 MHz DIMMs, that operate at 2933 MHz both at 1 DIMM per channel and 2 DIMMs per channel
- 3200 MHz DIMMs, that operate at 3200 MHz at 1 DIMM per channel, and at 2933 MHz at 2 DIMMs per channel

Note that if the processor selected has a memory bus speed of 2666 MHz, then all DIMMs will operate at 2666 MHz, even if the DIMMs are rated for a higher speed MHz.

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

Lenovo TruDDR4 memory uses the highest quality components that are sourced from Tier 1 DRAM suppliers and only memory that meets the strict requirements of Lenovo is selected. It is compatibility tested and tuned to maximize performance and reliability. From a service and support standpoint, Lenovo TruDDR4 memory automatically assumes the system warranty, and Lenovo provides service and support worldwide.

Table 17. Supported memory options

Part number	Feature code	Description	Maximum supported
2933 MHz memory			
4ZC7A08739	B7MS	ThinkSystem 8GB TruDDR4 2933MHz (1Rx8 1.2V) RDIMM-A	16
4ZC7A08740	B7MT	ThinkSystem 16GB TruDDR4 2933MHz (1Rx4 1.2V) RDIMM-A	16
4ZC7A08741	B7MU	ThinkSystem 16GB TruDDR4 2933MHz (2Rx8 1.2V) RDIMM-A	16
4ZC7A08742	B7MV	ThinkSystem 32GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM-A	16
4ZC7A08744	B7MW	ThinkSystem 64GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM-A	16
4ZC7A15113	B587	ThinkSystem 128GB TruDDR4 2933MHz (4Rx4 1.2V) 3DS RDIMM	16*
3200 MHz memory			
4ZC7A15121	B5XD	ThinkSystem 16GB TruDDR4 3200MHz (2Rx8 1.2V) RDIMM-A	16
4ZC7A15122	B5XE	ThinkSystem 32GB TruDDR4 3200MHz (2Rx4 1.2V) RDIMM-A	16
4ZC7A15123	B8NU	ThinkSystem 32GB TruDDR4 3200 MHz (2Rx8 1.2V) RDIMM-A	16
4ZC7A15124	B5XC	ThinkSystem 64GB TruDDR4 3200MHz (2Rx4 1.2V) RDIMM-A	16
4ZC7A15125	B8NT	ThinkSystem 128GB TruDDR4 3200MHz (4Rx4, 1.2V) 3DS RDIMM-A	16

* Supported in the SR655 only with an EPYC 7002 processor. Not supported with an EPYC 7003 processor.

The following rules apply when selecting the memory configuration:

- The 128GB 2933 MHz 3DS RDIMM, 4ZC7A15113, is only supported in the SR655 with an EPYC 7002 processor.
- The server supports RDIMMs and 3DS RDIMMs
- Mixing of RDIMMs and 3DS RDIMMs is not supported
- Mixing x4 and x8 DIMMs is supported, but not in the same channel
- Mixing of DIMM rank counts is supported. Follow the required installation order installing the DIMMs with the higher rank counts first.
- Mixing of DIMM capacities is supported, however only two different capacities are supported all channels of the processor (eg 32GB and 64GB). Follow the required installation order installing the larger DIMMs first.
- Mixing of 3200 MHz and 2933 MHz DIMMs is supported. Installed memory will operate at the lower speed.
- Memory mirroring and memory rank sparing are not supported.
- When a GPU is added as a field upgrade, all empty DIMM slots must have a dummy DIMM blank installed in each DIMM slot, to ensure the optimal air flow. Ordering information is in the following table. For CTO orders, the dummy DIMMs are derived by the configurator.

Table 18. ThinkSystem Dummy DIMM Kit

Part number	Description	Quantity required
4M27A11810	ThinkSystem Dummy DIMM Package Kit (contains 24 dummy memory DIMMs)	1

For best performance, consider the following:

- Ensure the memory installed is at least the same speed as the memory bus of the selected processor.
- Populate memory DIMMs in quantities of 8 or 16, so that all memory channels are used.
- Populate memory channels so they all have the same total memory capacity.

- For more details on how to best configure the memory subsystem for performance, refer to the Lenovo Press paper "Balanced Memory Configurations with 2nd Gen and 3rd Gen AMD EPYC Processors" available from
https://lenovopress.com/lp1268-balanced-memory-configurations-with-amd-epyc-processors

The following memory protection technologies are supported:

- ECC detection/correction
- SDDC (for x4-based memory DIMMs; look for "x4" in the DIMM description)
- Patrol/Demand Scrubbing
- DRAM Address Command Parity with Replay
- DRAM Uncorrected ECC Error Retry
- Post Package Repair

Internal storage

The SR655 supports up to 20x 3.5-inch or 32x 2.5-inch drive bays, depending on the selected chassis and backplane configuration. Drives can be all SAS, all SATA, or all NVMe, or combinations of all three (not in the same RAID array, if configured). The server also supports configurations without any drive bays if desired.

All drives are hot-swap and are accessible from the front, from the rear, or from drive bays that are located in the middle of the server (accessible when you remove the top cover of the server).

The three drive zones are as follows:

- Front: up to 12x 3.5-inch or 24x 2.5-inch, hot-swap bays
- Mid (internal): up to 4x 3.5-inch or 8x 2.5-inch, hot-swap bays
- Rear: up to 4x 3.5-inch or 4x 2.5-inch hot-swap bays

The server also supports one or two M.2 drives, installed in an M.2 adapter.

In this section:

- NVMe drive support
- Front drive bays
- Mid drive bays
- Rear drive bays
- Supported drive bay combinations
- Adapters selections
- Field upgrades
- M.2 drives

NVMe drive support

PM983 hot-swap support: To support hot-swap of PM983 NVMe drives, the server needs to have UEFI v2.0 (Build ID CFE108O) or later installed.

The SR655 supports NVMe drives to maximize storage performance, as follows:

- Up to 28 NVMe drives without oversubscription (that is, each x4 drive has a full x4 (4 lanes) connection to the processor)
    - 24 NVMe drives in the front bays
    - 4 NVMe drives in the rear bays
- Up to 32 NVMe drives with a 2:1 oversubscription (that is, each x4 drive has a x2 connection (2 lanes) to the processor)
    - 24 NVMe drives in the front bays
    - 8 NVMe drives in the mid bays
- Up to 4x NVMe drives in a 3.5-inch drive configuration
    - All installed in front bays

The specifics of these configurations plus other NVMe-rich configurations are covered in the Supported drive bay combinations and Adapters selections sections.

15mm NVMe drives: 15mm NVMe SSDs are not supported in the mid or rear drive bays due to thermal requirements. Only 7mm NVMe drives are supported in those zones. See the PCIe 4.0 NVMe SSDs table and PCIe 3.0 NVMe SSDs table for specifics.

Front drive bays

The front drive bay zone supports the following configurations:

- 3.5-inch drive bays
    - No drives and no backplane (supports field upgrades)
    - 8x 3.5-inch SAS/SATA (no upgrades)
    - 12x 3.5-inch SAS/SATA (no upgrades)
    - 8x 3.5-inch SAS/SATA + 4x 3.5-inch AnyBay (AnyBay supports SAS or SATA or NVMe drives) (no upgrades)

- 2.5-inch drive bays
    - No drives and no backplane (supports field upgrades)
    - 8x 2.5-inch SAS/SATA (supports field upgrades to 16 or 24 drives)
    - 16x 2.5-inch SAS/SATA (supports field upgrades to 24 drives)
    - 24x 2.5-inch SAS/SATA (no upgrades)
    - 8x 2.5-inch NVMe (supports field upgrades to 16 or 24 drives)
    - 16x 2.5-inch NVMe (supports field upgrades to 24 drives)
    - 24x 2.5-inch NVMe (no upgrades)
    - 8x 2.5-inch NVMe + 8x 2.5-inch SAS/SATA (supports upgrade to 16x SAS/SATA)
    - 8x 2.5-inch NVMe + 16x 2.5-inch SAS/SATA (no upgrades)

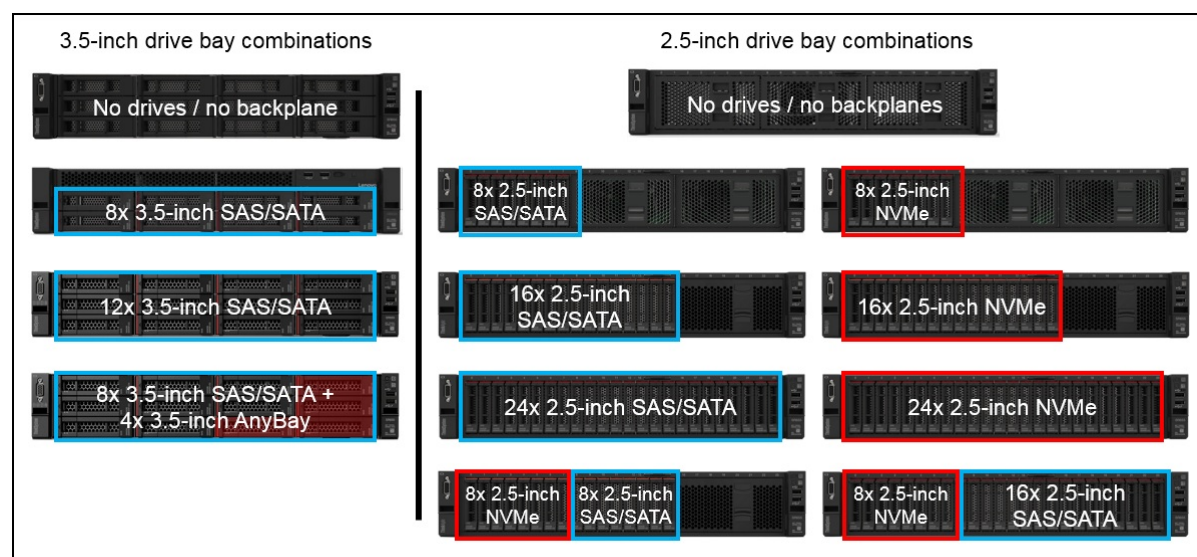These configurations are shown in the following figure.

Figure 6. SR655 front drive bay configurations

The backplanes used to provide these drive bays are listed in the following table.

Table 19. Backplanes for front drive bays

Part number	Feature code	Description	Maximum supported
Front 3.5-inch drive backplanes			
See note*	AUR6	ThinkSystem 2U 3.5" SATA/SAS 8-Bay Backplane (8-bay 3.5-inch SAS/SATA backplane)	1
See note*	AUR9	ThinkSystem 2U 3.5" SATA/SAS 12-Bay Backplane (12-bay 3.5-inch SAS/SATA backplane)	1
See note*	AUR8	ThinkSystem 2U 3.5" AnyBay 12-Bay Backplane (12-bay 3.5-inch backplane with 8x SAS/SATA bays + 4x AnyBay bays†)	1
Front 2.5-inch drive backplanes			
See note*	AURA	ThinkSystem 2U/Twr 2.5" SATA/SAS 8-Bay Backplane (8-bay 2.5-inch SAS/SATA backplane)	3
See note*	B4PC	ThinkSystem 2U 2.5" NVMe 8-Bay Backplane (8-bay 2.5-inch NVMe backplane)	3

* Backplanes are available as part numbers for field upgrades using upgrade kits, as described in the Field upgrades section below.
† Does not support PCIe 4.0 NVMe drives

The use of NVMe drives may limit the use of PCIe slots or M.2 drives as described in the   I/O expansion section.

280W processor support: There are some restrictions regarding the use of some drive configurations with a 280W processor installed due to thermal restrictions. See the Operating environment section for details.

Mid drive bays

The SR655 supports hot-swap drives installed in the middle of the server chassis. The drive bays are accessible by removing the top lid of the server and levering the mid drive chassis.

The following configurations are supported:

- 4x 3.5-inch hot-swap SAS/SATA drive bays
- 8x 2.5-inch hot-swap SAS/SATA drive bays
- 8x 2.5-inch hot-swap NVMe drive bays

The drive bays in the open position are shown in the following figure.

Note: The figure shows an M.2 Module installed in the 2.5-inch drive bays, however installing the M.2 Module in this location is currently not supported
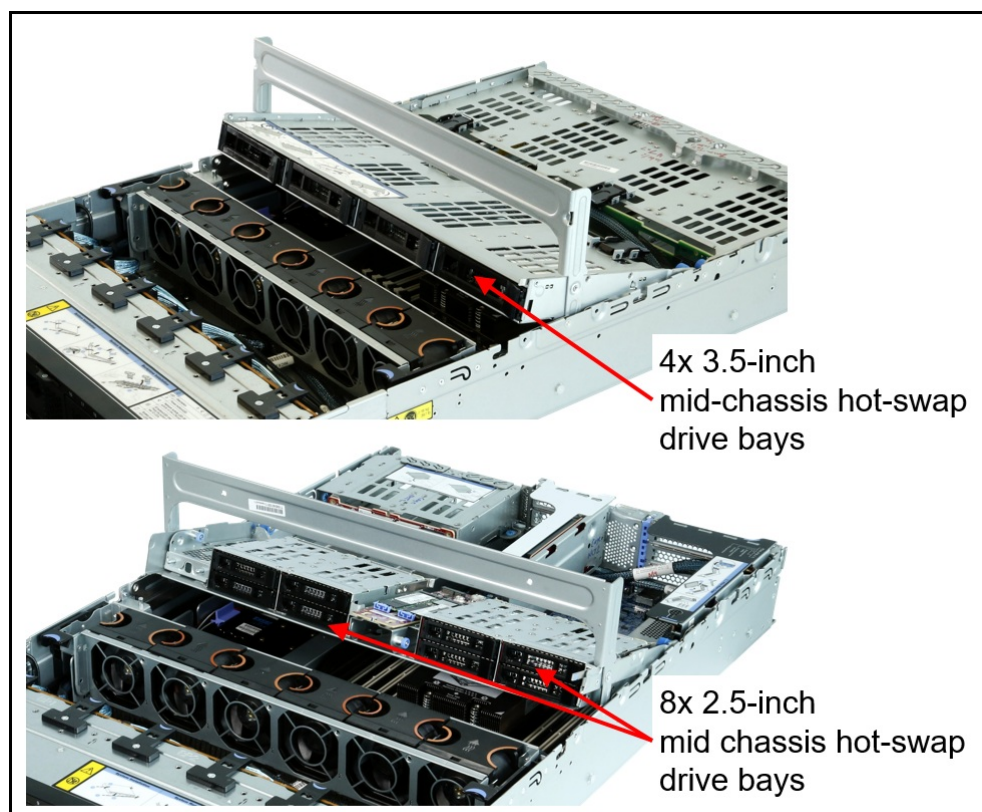
Figure 7. Mid-chassis drive bays

The backplanes used to provide these drive bays are listed in the following table.

Table 20. Backplanes for mid drive bays

Part number	Feature code	Description	Maximum supported
Mid - 3.5-inch drive backplane			
See note*	BCPB	ThinkSystem 1U 3.5" SATA/SAS 4-Bay Backplane	1
Mid - 2.5-inch drive backplanes			
See note*	B5VP	ThinkSystem SR655 2.5" SATA/SAS 4-Bay Middle Backplane	2‡
See note*	B5VN	ThinkSystem 2.5" NVMe 4-Bay Middle Backplane	2‡

* Backplanes are available as part numbers for field upgrades using upgrade kits, as described in the Field upgrades section below.
‡ 2.5-inch drive backplanes for the mid-chassis area must be installed in pairs. NVMe and SAS/SATA cannot be mixed.

The use of drive bays in the mid-chassis area has the following configuration rules:

- Processors with TDP higher than 155W are not supported
- Full-length adapter cards are not supported
- GPUs (including low profile GPUs such as the T4) are not supported
- If 2.5-inch mid-chassis drive bays are configured then rear drive bays are not supported. See the Supported drive bay combinations section for more information.
- The use of NVMe drives in the mid bays requires to use of a PCIe switch

Rear drive bays

The SR655 supports hot-swap drives installed at the rear of the server chassis. Supported configurations are as follows:

- 4x 3.5-inch hot-swap SAS/SATA drive bays
- 4x 2.5-inch hot-swap SAS/SATA drive bays
- 4x 2.5-inch hot-swap NVMe drive bays

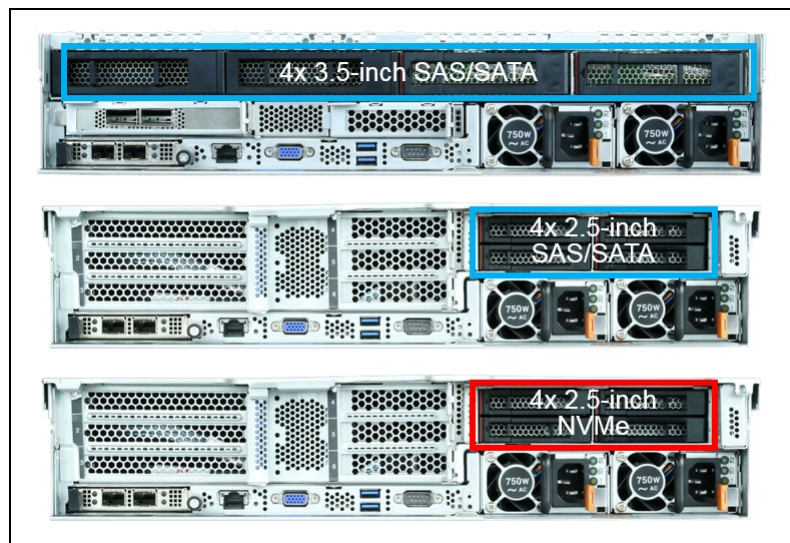The configurations are shown in the following figure.

Figure 8. Rear drive bay configurations

The backplanes used to provide these drive bays are listed in the following table.

Table 21. Backplanes for rear drive bays

Part number	Feature code	Description	Maximum supported
Rear - 3.5-inch drive backplane			
See note*	AUW8	ThinkSystem 3.5" SATA/SAS 4-Bay Backplane	1
Rear - 2.5-inch drive backplanes			
See note*	BCPD	ThinkSystem SR655 2.5" SATA/SAS 4-Bay Rear Backplane	1
See note*	BCPC	ThinkSystem SR655 2.5" NVMe 4-Bay Rear Backplane	1

* Backplanes are available as part numbers for field upgrades using upgrade kits, as described in the Field upgrades section below.

The use of rear drive bays has the following configuration rules:

- GPUs are not supported

- If 3.5-inch rear drive bays are configured:
    - Only slots 3 and 6 are available, as described in the I/O expansion section
    - The intrusion switch is not supported.

- If 2.5-inch rear drive bays are configured
    - Slots 7 and 8 are not available, as described in the I/O expansion section
    - The intrusion switch may be support via Special Bid.

- The use of NVMe drives in rear bays requires the use of a PCIe switch

Supported drive bay combinations

This section describes the various combinations of 3.5-inch and 2.5-inch drives that the server supports. The drive bay combinations are grouped based on the drive type at the front of the server, 3.5-inch or 2.5-inch.

3.5-inch drive bay chassis

The following table shows the supported combinations when the server is configured with a 3.5-inch chassis (where the front drive bays are 3.5-inch). In this configuration:

- When the front bays are 3.5-inch bays, the mid bays are also 3.5-inch bays, however the rear zone can be either 2.5-inch SAS/SATA or 3.5-inch SAS/SATA
- NVMe is only supported in the front bays, using the AnyBay backplane (which offers 4x NVMe-capable drive bays)

The choice of storage controller for each configuration is listed in the Adapter selections section.

Table 22. Drive bay combinations with 3.5-inch chassis (Blue cells = SAS/SATA, Purple cells = AnyBay)

| Config | Total drives | Front bays (3.5") | | Mid bays (3.5") | Rear bays (3.5" or 2.5") | |
		SAS/SATA	AnyBay	SAS/SATA	3.5" SAS/SATA	2.5" SAS/SATA
3.5-inch chassis - SAS/SATA drives only						
A	8	8	0	0	0	0
B	12	12	0	0	0	0
C	16	12	0	0	4	0
D	16	12	0	0	0	4
E	20	12	0	4	4	0
F	20	12	0	4	0	4
3.5-inch chassis - SAS/SATA and AnyBay drives						
G	12	8	4	0	0	0
H	16	8	4	0	4	0
I	16	8	4	0	0	4
J	20	8	4	4	4	0
K	20	8	4	4	0	4

2.5-inch drive bay chassis

The server has 36 drive bays in total, however up to 32 drives are supported in a configuration.

The following table shows the supported combinations when the server is configured with a 2.5-inch chassis (where the front drive bays are 2.5-inch). In this configuration:

- With the 2.5-inch chassis, all drive bays are 2.5-inch bays. No 3.5-inch drives are supported with the 2.5-inch chassis.
- Mid bays and Rear bays cannot be used concurrently

The choice of storage controller for each configuration is listed in the Adapter selections section.

Table 23. Drive bay combinations with 2.5-inch chassis (Blue cells = SAS/SATA, Red cells = NVMe)

Config	Total drives	Front bays (2.5")		Mid bays (2.5")		Rear bays (2.5")	
		SAS/SATA	NVMe	SAS/SATA	NVMe	SAS/SATA	NVMe
2.5-inch chassis - SAS/SATA drives only							
A	8	8	0	0	0	0	0
B	16	16	0	0	0	0	0
C	20	16	0	0	0	4	0
D	24	24	0	0	0	0	0
E	28	24	0	0	0	4	0
F	32	24	0	8	0	0	0
2.5-inch chassis - SAS/SATA and NVMe drives in the front bays							
G	16	8	8	0	0	0	0
H	20	8	8	0	0	4	0
I	24	16	8	0	0	0	0
J	28	16	8	0	0	4	0
K	32	16	8	8	0	0	0
2.5-inch chassis - only NVMe drives in the front bays							
L	8	0	8	0	0	0	0
M	16	0	16	0	0	0	0
N	20	0	16	0	0	4	0
O	20	0	16	0	0	0	4
P	24	0	24	0	0	0	0
Q	28	0	24	0	0	4	0
R	28	0	24	0	0	0	4
S	32	0	24	8	0	0	0
T	32	0	24	0	8	0	0

Adapter selections

The following tables lists the supported drive bay combinations plus the list of supported controller combinations supported by each of those drive bay combinations. Information about the controllers can be found in the Controllers for internal storage section.

General rules for adapters:

- The RAID 730-8i 1G cannot be used for connection to the rear drive bays

- Only the RAID 530-8i or the 430-8i HBA can be selected when a separate controller is needed for the rear drive bays

- The RAID 730-8i 2G cannot be used in the same server as the RAID 730-8i-1G or RAID 930-8i

- The M.2 Adapter is not supported in configurations of 16 or more 2.5-inch NVMe drives in the front bays

- For performance reasons, select the 1610-4P NVMe switch adapter instead of the 810-4P NVMe switch adapter, when available

Table 24. Drive bay combinations with 3.5-inch chassis (S/S = SAS/SATA) (Blue cells = SAS/SATA, Purple cells = AnyBay)

Cfg	Total drives	Front bays (3.5")		Mid bays (3.5")	Rear (3.5" or 2.5")		Supported controller combinations (choose one) (OB = Onboard)
		SAS/ SATA	Any Bay	SAS/ SATA	3.5" S/S	2.5" S/S	
3.5-inch chassis - SAS/SATA drives only							
A	8	8	0	0	0	0	• OB SATA • 530-8i • 730-8i 1G • 730-8i 2G • 930-8i • 430-8i • 540-8i • 940-8i • 440-8i
B	12	12	0	0	0	0	• OB SATA • 930-16i • 430-16i • 940-16i • 440-16i
C	16	12	0	0	4	0	• OB SATA • 930-16i • 930-16i + 530-8i • 430-16i • 430-16i + 430-8i • 940-16i • 440-16i
D	16	12	0	0	0	4	• OB SATA • 930-16i • 930-16i + 530-8i • 430-16i • 430-16i + 430-8i • 940-16i • 440-16i
E	20	12	0	4	4	0	• 930-24i • 930-16i + 530-8i • 430-16i + 430-8i • 940-16i • 440-16i
F	20	12	0	4	0	4	• 930-24i • 930-16i + 530-8i • 430-16i + 430-8i • 940-16i • 440-16i
3.5-inch chassis - SAS/SATA and AnyBay drives							

| Cfg | Total drives | Front bays (3.5") | | Mid bays (3.5") | Rear (3.5" or 2.5") | | Supported controller combinations (choose one) (OB = Onboard) |
		SAS/ SATA	Any Bay	SAS/ SATA	3.5" S/S	2.5" S/S	
G	12	8	4	0	0	0	• OB SATA + OB NVMe • 930-16i + OB NVMe • 430-16i + OB NVMe • 940-16i + OB NVMe • 440-16i + OB NVMe
H	16	8	4	0	4	0	• 930-16i + OB NVMe • 930-16i + 530-8i + OB NVMe • 430-16i + OB NVMe • 430-16i + 430-8i + OB NVMe • 940-16i + 540-8i + OB NVMe • 440-16i + 440-8i + OB NVMe
I	16	8	4	0	0	4	• 930-16i + OB NVMe • 930-16i + 530-8i + OB NVMe • 430-16i + OB NVMe • 430-16i + 430-8i + OB NVMe • 940-16i + 540-8i + OB NVMe • 440-16i + 440-8i + OB NVMe
J	20	8	4	4	4	0	• 930-24i + OB NVMe • 930-16i + 530-8i + OB NVMe • 430-16i + 430-8i + OB NVMe • 940-32i + OB NVMe • 940-16i + 540-8i + OB NVMe • 440-16i + 440-8i + OB NVMe
K	20	8	4	4	0	4	• 930-24i + OB NVMe • 930-16i + 530-8i + OB NVMe • 430-16i + 430-8i + OB NVMe • 940-32i + OB NVMe • 940-16i + 540-8i + OB NVMe • 440-16i + 440-8i + OB NVMe

Table 25. Drive bay combinations with 2.5-inch chassis (S/S = SAS/SATA) (Blue cells = SAS/SATA, Red cells = NVMe)

| Cfg | Total drives | Front bays (2.5") | | Mid bays (2.5") | | Rear bays (2.5") | | Supported controller combinations (choose one) (OB = Onboard) |
		SAS/ SATA	NVMe	SAS/ SATA	NVMe	SAS/ SATA	NVMe	
2.5-inch chassis - SAS/SATA drives only								

Cfg	Total drives	Front bays (2.5")		Mid bays (2.5")		Rear bays (2.5")		Supported controller combinations (choose one) (OB = Onboard)
		SAS/ SATA	NVMe	SAS/ SATA	NVMe	SAS/ SATA	NVMe	
A	8	8	0	0	0	0	0	• 530-8i • 730-8i 1G • 730-8i 2G • 930-8i • 430-8i • 540-8i • 940-8i • 440-8i
B	16	16	0	0	0	0	0	• OB SATA (no M.2 support) • 930-16i • 2x 530-8i • 2x 730-8i 1G • 2x 730-8i 2G • 2x 930-8i • 430-16i • 2x 430-8i • 940-16i • 440-16i • 2x 540-8i • 2x 940-8i • 2x 440-8i
C	20	16	0	0	0	4	0	• 930-24i • 930-16i + 530-8i • 3x 530-8i • 2x 730-8i 1G + 530-8i • 430-16i + 430-8i • 3x 430-8i • 940-32i • 940-16i + 540-8i • 3x 540-8i • 440-16i + 440-8i • 3x 440-8i
D	24	24	0	0	0	0	0	• 930-24i • 930-16i + 930-8i • 930-16i + 730-8i 2G • 930-16i + 530-8i • 930-16i + 730-8i 1G • 3x 530-8i • 3x 730-8i 1G • 430-16i + 430-8i • 3x 430-8i • 940-32i • 940-16i + 940-8i • 940-16i + 540-8i • 3x 540-8i • 440-16i + 440-8i • 3x 440-8i

Cfg	Total drives	Front bays (2.5") SAS/SATA	Front bays (2.5") NVMe	Mid bays (2.5") SAS/SATA	Mid bays (2.5") NVMe	Rear bays (2.5") SAS/SATA	Rear bays (2.5") NVMe	Supported controller combinations (choose one) (OB = Onboard)
E	28	24	0	0	0	4	0	• 930-24i + 530-8i • 4x 530-8i • 3x 730-8i + 530-8i • 4x 430-8i
F	32	24	0	8	0	0	0	• 930-24i + 530-8i • 4x 530-8i • 3x 730-8i + 530-8i • 4x 430-8i • 4x 540-8i • 4x 440-8i
2.5-inch chassis - SAS/SATA and NVMe drives in the front bays								
G	16	8	8	0	0	0	0	• OB SATA + 8x OB NVMe • 530-8i + 8x OB NVMe • 730-8i 1G + 8x OB NVMe • 730-8i 2G + 8x OB NVMe • 930-8i + 8x OB NVMe • 430-8i + 8x OB NVMe • 540-8i + 8x OB NVMe • 940-8i + 8x OB NVMe • 440-8i + 8x OB NVMe
H	20	8	8	0	0	4	0	• 930-16i + 8x OB NVMe • 2x 530-8i + 8x OB NVMe • 730-8i 1G + 530-8i + 8x OB NVMe • 730-8i 2G + 530-8i + 8x OB NVMe • 930-8i + 530-8i + 8x OB NVMe • 430-16i + 8x OB NVMe • 2x 430-8i + 8x OB NVMe • 940-16i + 8x OB NVMe • 2x 540-8i + 8x OB NVMe • 940-8i + 540-8i + 8x OB NVMe • 440-16i + 8x OB NVMe • 2x 440-8i + 8x OB NVMe
I	24	16	8	0	0	0	0	• OB SATA + 8x OB NVMe (No M.2 support) • 930-16i + 8x OB NVMe • 2x 930-8i + 8x OB NVMe • 2x 730-8i 2G + 8x OB NVMe • 2x 730-8i 1G + 8x OB NVMe • 2x 530-8i + 8x OB NVMe • 430-16i + 8x OB NVMe • 2x 430-8i + 8x OB NVMe • 940-16i + 8x OB NVMe • 2x 540-8i + 8x OB NVMe • 2x 940-8i + 8x OB NVMe • 440-16i + 8x OB NVMe • 2x 440-8i + 8x OB NVMe

Cfg	Total drives	Front bays (2.5") SAS/SATA	Front bays (2.5") NVMe	Mid bays (2.5") SAS/SATA	Mid bays (2.5") NVMe	Rear bays (2.5") SAS/SATA	Rear bays (2.5") NVMe	Supported controller combinations (choose one) (OB = Onboard)
J	28	16	8	0	0	4	0	• 930-24i + 8x OB NVMe • 930-16i + 530-8i + 8x OB NVMe • 3x 530-8i + 8x OB NVMe • 2x 730-8i 1G + 530-8i + 8x OB NVMe • 430-16i + 430-8i + 8x OB NVMe • 940-32i + 8x OB NVMe • 940-16i + 540-8i + 8x OB NVMe • 3x 540-8i + 8x OB NVMe • 440-16i + 440-8i + 8x OB NVMe • 3x 440-8i + 8x OB NVMe
K	32	16	8	8	0	0	0	• 930-24i + 8x OB NVMe • 930-16i + 930-8i + 8x OB NVMe • 930-16i + 730-8i 2G + 8x OB NVMe • 930-16i + 730-8i 1G + 8x OB NVMe • 930-16i + 530-8i + 8x OB NVMe • 2x 730-8i 1G + 930-8i + 8x OB NVMe • 2x 730-8i 1G + 730-8i 2G + 8x OB NVMe • 2x 530-8i + 930-8i + 8x OB NVMe • 2x 530-8i + 730-8i 2G + 8x OB NVMe • 3x 530-8i + 8x OB NVMe • 2x 730-8i 1G + 530-8i + 8x OB NVMe • 430-16i + 430-8i + 8x OB NVMe • 940-32i + 8x OB NVMe • 940-16i + 940-8i + 8x OB NVMe • 940-16i + 540-8i + 8x OB NVMe • 3x 540-8i + 8x OB NVMe • 440-16i + 440-8i + 8x OB NVMe
2.5-inch chassis - only NVMe drives in the front bays							
L	8	0	8	0	0	0	0	• 8x OB NVMe
M	16	0	16	0	0	0	0	• 16x OB NVMe (No M.2 support)
N	20	0	16	0	0	4	0	• No M.2 support with any config • 16x OB NVMe + 530-8i • 16x OB NVMe + 430-8i • 16x OB NVMe + 540-8i • 16x OB NVMe + 440-8i
O	20	0	16	0	0	0	4	• No M.2 support • 16x OB NVMe + 1x 1610-4P • 16x OB NVMe + 1x 810-4P* • 16x OB NVMe + 1x Retimer
P	24	0	24	0	0	0	0	• No M.2 support • 16x OB NVMe + 2x 1610-4P • 16x OB NVMe + 2x 810-4P* • 16x OB NVMe + 1x 1611-8P* • 16x OB NVMe + 2x Retimer

Cfg	Total drives	Front bays (2.5")		Mid bays (2.5")		Rear bays (2.5")		Supported controller combinations (choose one) (OB = Onboard)
		SAS/ SATA	NVMe	SAS/ SATA	NVMe	SAS/ SATA	NVMe	
Q	28	0	24	0	0	4	0	• No M.2 support with any config • 16x OB NVMe + 2x 1610-4P + 530-8i • 16x OB NVMe + 2x 1610-4P + 430-8i • 16x OB NVMe + 2x 810-4P + 530-8i* • 16x OB NVMe + 2x 810-4P + 430-8i* • 16x OB NVMe + 2x 1610-4P + 540-8i • 16x OB NVMe + 2x 1610-4P + 440-8i • 16x OB NVMe + 2x 810-4P + 540-8i* • 16x OB NVMe + 2x 810-4P + 440-8i*
R	28	0	24	0	0	0	4	• No M.2 support • 16x OB NVMe + 3x 1610-4P • 16x OB NVMe + 3x 810-4P* • 16x OB NVMe + 1x 1611-8P + 1x Retimer • 16x OB NVMe + 3x Retimer
S	32	0	24	8	0	0	0	• No M.2 support with any config • 16x OB NVMe + 2x 1610-4P + 930-8i • 16x OB NVMe + 2x 1610-4P + 730-8i 2G • 16x OB NVMe + 2x 1610-4P + 730-8i 1G • 16x OB NVMe + 2x 1610-4P + 530-8i • 16x OB NVMe + 2x 1610-4P + 430-8i • 16x OB NVMe + 2x 810-4P + 930-8i* • 16x OB NVMe + 2x 810-4P + 730-8i 2G* • 16x OB NVMe + 2x 810-4P + 730-8i 1G* • 16x OB NVMe + 2x 810-4P + 530-8i* • 16x OB NVMe + 2x 810-4P + 430-8i* • 16x OB NVMe + 2x 1610-4P + 940-8i • 16x OB NVMe + 2x 1610-4P + 540-8i • 16x OB NVMe + 2x 1610-4P + 440-8i • 16x OB NVMe + 2x 810-4P + 940-8i* • 16x OB NVMe + 2x 810-4P + 540-8i* • 16x OB NVMe + 2x 810-4P + 440-8i*
T	32	0	24	0	8	0	0	• No M.2 support • 16x OB NVMe + 4x 810-4P* • 16x OB NVMe + 2x 1611-8P*

* The use of the 810-4P with 4 drives or 1611-8P with 8 drives results in PCIe lane oversubscription. For better NVMe drive performance without oversubscription, use a 1610-4P instead (not supported in configuration T)

Field upgrades

This section lists the available field upgrade option part numbers for storage upgrades.

- Backplane kits
- Cable kits for 440 HBAs and RAID 940 adapters
- Cable kit for Onboard SATA controller upgrades (X30 adapters only)
- Cable kit for the 1611-8P adapter
- Supercap kit
- 2.5-inch drive bay fillers

Backplane kits

The following table lists the option part numbers for the backplane kits that allow you to add additional drive bays as field upgrades. The table also lists what major components are included in each kit.

When adding drive bays, you will also need to add the appropriate storage controller(s). Consult the tables in the Adapter selections section to determine what controller sections are supported and what additional controllers you will need. Controllers are described in the Controllers for internal storage section.

> **Use with X40 adapters**: These backplane kits in the table below include SAS/SATA cables for use with the onboard SATA controller or with RAID 930, 730, 530 adapters and 430 HBAs (collectively called X30 adapters). If you are adding or upgrading to RAID 940 adapters or 440 HBAs (collectively called X40 adapters), you will need to *also* order an X40 cable kit. See the Cable kits for 440 HBAs and RAID 940 adapters section for details.

Table 26. Drive bay field upgrades

Part number	Description and contents of the upgrade kits	Maximum supported
Front - 3.5-inch drive backplanes (see Front drive bays)		
4XH7A09829	ThinkSystem SR655 3.5" SATA/SAS 8-Bay Backplane Kit • 1x 8-bay SAS/SATA backplane • SATA Cable Kit (power and SATA cables) • SAS/SATA Cable Kit (power cable, miniSAS-HD cable)	1
4XH7A09830	ThinkSystem SR655 3.5" SATA/SAS 12-Bay Backplane Kit • 1x 12-bay SAS/SATA backplane • SATA Cable Kit (power and SATA cables) • SAS/SATA Cable Kit (power cable, miniSAS-HD cable)	1
4XH7A09831	ThinkSystem SR655 3.5" 4 Gen3 AnyBay 12-Bay BP Kit (12-bay 3.5-inch backplane with 8x SAS/SATA bays + 4x AnyBay bays†) • 1x 12-bay AnyBay backplane • SATA Cable Kit (power and SATA cables) • SAS/SATA Cable Kit (power cable, miniSAS-HD cable) • NVMe cable (x8-to-two-x4-slimline cable)	1
Front - 2.5-inch drive backplanes (see Front drive bays)		
4XH7A09832	ThinkSystem SR655 2.5" SATA/SAS 8-Bay Backplane Kit • 1x 8-bay SAS/SATA backplane • SATA Cable Kits (power and SATA cables) • SAS/SATA Cable Kits (power cables, miniSAS-HD cables)	3

Part number	Description and contents of the upgrade kits	Maximum supported
4XH7A09833	ThinkSystem SR655 2.5" NVMe Gen4 8-Bay Backplane Kit ● 1x 8-bay NVMe backplane ● NVMe Cable Kits (power and x8 slimline cables)	3
Mid - 3.5-inch drive backplane (see Mid drive bays)		
4XH7A09850	ThinkSystem SR655 3.5" SATA/SAS 4-Bay Middle Drive Kit ● Mid-chassis 3.5-inch drive cage ● 4-bay 3.5-inch SAS/SATA backplane ● 1U Performance Heatsink (replaces existing heatsink) ● 6x Performance fans (replaces existing fans) ● Air baffle (replace existing baffle) ● SAS/SATA Cable Kit (power cable, miniSAS-HD cable)	1
Mid - 2.5-inch drive backplanes (see Mid drive bays)		
4XH7A09854	ThinkSystem SR655 2.5" SATA/SAS 8-Bay Middle Drive Kit ● Mid-chassis 2.5-inch drive cage ● 2x 4-bay 2.5-inch SAS/SATA backplane ● 1U Performance Heatsink (replaces existing heatsink) ● 6x Performance fans (replaces existing fans) ● Air baffle (replace existing baffle) ● 2x SAS/SATA Cable Kits (power cable, miniSAS-HD cable)	1
4XH7A09857	ThinkSystem SR655 2.5" NVMe Gen4 8-Bay Middle Drive Kit ● Mid-chassis 2.5-inch drive cage ● 2x 4-bay 2.5-inch NVMe backplane ● 1U Performance Heatsink (replaces existing heatsink) ● 6x Performance fans (replaces existing fans) ● Air baffle (replace existing baffle) ● 2x NVMe Cable Kits (power cable, signal cable)	1
Rear - 3.5-inch drive backplane (see Rear drive bays)		
4XH7A09851	ThinkSystem SR655 3.5" SATA/SAS 4-Bay Rear Drive Kit ● Rear 3.5-inch drive cage ● 4-bay 3.5-inch SAS/SATA rear backplane ● PCIe Riser 1 riser (provides x16 slot 3 only) ● PCIe Riser 2 riser (provides x16 slot 6 only) ● 6x Performance fans (replaces existing fans) ● SATA Cable Kit (power cable, SATA cable) ● SAS/SATA Cable Kit (power cable, miniSAS-HD cable)	1
Rear - 2.5-inch drive backplanes (see Rear drive bays)		
4XH7A09855	ThinkSystem SR655 2.5" SATA/SAS 4-Bay Rear Drive Kit ● Rear 2.5-inch drive cage ● 4-bay 2.5-inch SAS/SATA rear backplane ● PCIe Riser 2 riser bracket (converts existing 3-slot riser to low profile slots) ● 6x Performance fans (replaces existing fans) ● SATA Cable Kit (power cable, SATA cable) ● SAS/SATA Cable Kit (power cable, miniSAS-HD cable)	1

Part number	Description and contents of the upgrade kits	Maximum supported
4XH7A09858	ThinkSystem SR655 2.5" NVMe Gen4 4-Bay Rear Drive Kit • Rear 2.5-inch drive cage • 4-bay 2.5-inch NVMe rear backplane • PCIe Riser 2 riser bracket (converts existing 3-slot riser to low profile slots) • 6x Performance fans (replaces existing fans) • NVM Cable Kit (power cable, signal cables)	1

† AnyBay bays support SAS or SATA or NVMe drives

Cable kits for 440 HBAs and RAID 940 adapters

The backplane kits listed in the preceding table include cables for use with the onboard SATA controller or with RAID 930, 730, 530 adapters and 430 HBAs (collectively called X30 adapters). If you wish to use the backplane kits with RAID 940 adapters or 440 HBAs (collectively called X40 adapters), then you will also need to order an additional X40 cable kit to use instead of the cables in the backplane kit.

Tip: When adding an X40 adapter, you will order both the backplane kit and the relevant X40 cable kit, however the SAS/SATA data cable(s) in the backplane kit will not be used.

Upgrades from onboard SATA: If you are upgrading a system that currently uses the onboard SATA controller and has all necessary backplanes, simply order the relevant X40 cable kit as listed in the table.

Table 27. Cable kits for 440 HBAs and RAID 940 adapters

Backplane kits with X30 cables		X40 cable kits also needed	
Front - 3.5-inch drive backplanes			
4XH7A09829	ThinkSystem SR655 3.5" SATA/SAS 8-Bay Backplane Kit	4XH7A61122	ThinkSystem SR655 3.5" SAS/SATA 8-Bay X40 RAID Cable Kit
4XH7A09830	ThinkSystem SR655 3.5" SATA/SAS 12-Bay Backplane Kit	4XH7A61123	ThinkSystem SR655 3.5" SAS/SATA 12-Bay X40 RAID Cable Kit
4XH7A09831	ThinkSystem SR655 3.5" 4 Gen3 AnyBay 12-Bay BP Kit	4XH7A61123	ThinkSystem SR655 3.5" SAS/SATA 12-Bay X40 RAID Cable Kit
Front - 2.5-inch drive backplanes			
4XH7A09832	ThinkSystem SR655 2.5" SATA/SAS 8-Bay Backplane Kit	4XH7A61124	ThinkSystem SR655 2.5" SAS/SATA 8-Bay X40 RAID Cable Kit
4XH7A09833	ThinkSystem SR655 2.5" NVMe Gen4 8-Bay Backplane Kit	None	Not supported – NVMe only
Mid - 3.5-inch drive backplane			
4XH7A09850	ThinkSystem SR655 3.5" SATA/SAS 4-Bay Middle Drive Kit	4XH7A61129	ThinkSystem SR655 2.5" & 3.5" SAS/SATA 4/8-Bay Middle Backplane X40 RAID Cable Kit
Mid - 2.5-inch drive backplanes			
4XH7A09854	ThinkSystem SR655 2.5" SATA/SAS 8-Bay Middle Drive Kit	4XH7A61129	ThinkSystem SR655 2.5" & 3.5" SAS/SATA 4/8-Bay Middle Backplane X40 RAID Cable Kit
4XH7A09857	ThinkSystem SR655 2.5" NVMe Gen4 8-Bay Middle Drive Kit	None	Not supported – NVMe only
Rear - 3.5-inch drive backplane			
4XH7A09851	ThinkSystem SR655 3.5" SATA/SAS 4-Bay Rear Drive Kit	4XH7A61131	ThinkSystem SR655 2.5" & 3.5" SAS/SATA 4-Bay Rear Backplane X40 RAID Cable Kit
Rear - 2.5-inch drive backplanes			
4XH7A09855	ThinkSystem SR655 2.5" SATA/SAS 4-Bay Rear Drive Kit	4XH7A61131	ThinkSystem SR655 2.5" & 3.5" SAS/SATA 4-Bay Rear Backplane X40 RAID Cable Kit
4XH7A09858	ThinkSystem SR655 2.5" NVMe Gen4 4-Bay Rear Drive Kit	None	Not supported – NVMe only

Cable kit for Onboard SATA controller upgrades (X30 adapters only)

If your existing server is configured with drive backplanes that are connected to onboard SATA ports and you wish to upgrade to an X30 RAID adapter or SAS HBA (RAID 930, 730, 530 adapters and 430 HBAs), you will need to order the cable kit listed in the following table along with the adapter(s). The cable kit includes the additional cables you will need to connect the existing backplane to the new X30 adapter. Note that the kit includes the cables needed for all supported combinations of backplanes; this means that some of the cables in the kit will not be used.

For X40 RAID adapters and HBAs, instead order one of the X40 cable kits listed in the Cable kits for 440 HBAs and RAID 940 adapters section.

Table 28. RAID adapter cable kit for servers with backplanes (X30 adapters only)

Part number	Feature code	Description
4X97A59750	BCCD	ThinkSystem SR655 SAS Cable Kit, contains four cables: • Front BP SAS/SATA Combo Cable A, SC17A59349 • 800mm MiniSAS-HD to MiniSAS-HD Cable C, SC17A50746 • 600mm Slimline 4X RA to Slimline4X, SC17A50708 • 445mm HBA HD to HD Cable A, SC17A50738

The cables in the kit are used with existing backplanes as listed in the following table.

Table 29. Use of SR655 SAS Cable Kit

Existing backplane	Needed cables
Front 3.5-inch 8x SAS/SATA Backplane	Front BP SAS/SATA Combo Cable A, SC17A59349
Front 3.5-inch 12x SAS/SATA Backplane	Front BP SAS/SATA Combo Cable A, SC17A59349 800mm MiniSAS-HD to MiniSAS-HD Cable C, SC17A50746
Front 3.5-inch 8x SAS/SATA+4xAnyBay Backplane	Front BP SAS/SATA Combo Cable A, SC17A59349 600mm Slimline 4X RA to Slimline4X, SC17A50708
Front 2.5-inch 8x SAS/SATA Backplane (order 1 cable kit per 8-drive backplane installed)	Front BP SAS/SATA Combo Cable A, SC17A59349
Rear 3.5-inch 4x SAS/SATA Backplane	445mm HBA HD to HD Cable A, SC17A50738
Rear 2.5-inch 4x SAS/SATA Backplane	445mm HBA HD to HD Cable A, SC17A50738

Cable kit for the 1611-8P adapter

The backplane kit part numbers listed in the Drive bay field upgrades table that include NVMe connections (that is, NVMe backplanes and AnyBay backplanes) only include cables for use with 1610-4P or 810-4P NVMe adapters. If you wish to use these backplane kits with the 1611-8P NVMe adapter, then you will *also* need to order an additional cable kit to use instead of the cables in the backplane kit.

> **Tip**: When adding an 1611-8P adapter, you will order both the backplane kit and the 1611-8P cable kit, however the NVMe data cables in the backplane kit will not be used.

Table 30. Cable kit for 1611-8P adapter

Part number	Description
4X97A83644	ThinkSystem SR655 1611-8P NVMe Switch Adapter Cable Kit

Supercap kit

If you plan to add one of the RAID adapters that includes a Flash power module (supercap) as a field upgrade, then you will also need to order a Supercap installation kit for the power module. For CTO orders, the components in the installation kit are automatically derived when you select the RAID adapter. The adapters that this applies to are as follows:

- ThinkSystem RAID 730-8i 2GB Flash PCIe 12Gb Adapter
- ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter
- ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter
- ThinkSystem RAID 930-24i 4GB Flash PCIe 12Gb Adapter
- ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter
- ThinkSystem RAID 940-16i 4GB Flash PCIe Gen4 12Gb Adapter

- ThinkSystem RAID 940-32i 8GB Flash PCIe Gen4 12Gb Adapter

The power module installation kit list listed in the following table.

Table 31. RAID Flash Power Module installation kit

Part number	Feature code	Description
4XH7A09847	B72A	ThinkSystem SR635/SR655 Supercap Installation Kit • 1x Bracket to hold two supercaps in their holders • 3x Supercap holders

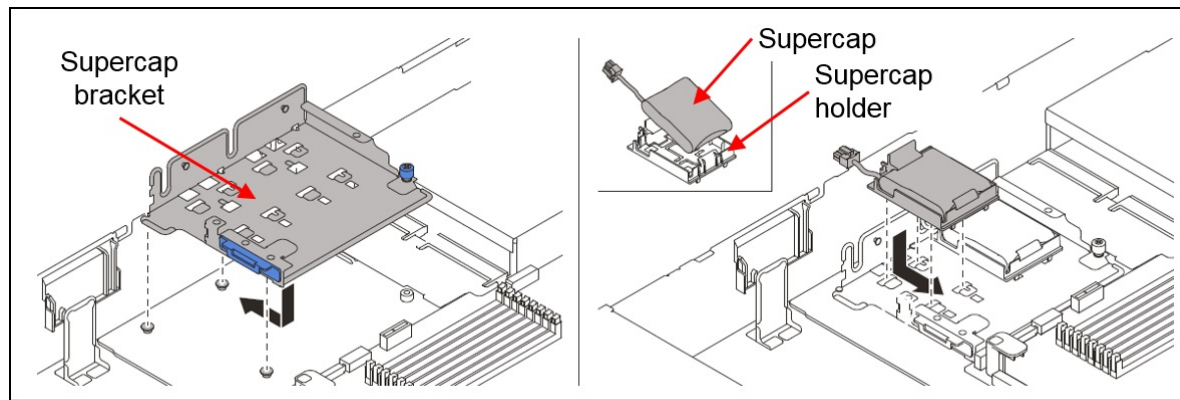The following figure shows the location and use of the components of the option kit.

Figure 9. Supercap Installation Kit

2.5-inch drive bay fillers

Backplane option kits include the necessary drive bay fillers, however if needed, additional blanks can be ordered as listed in the following table.

Table 32. Drive bay fillers for 2.5-inch bays

Part number	Description
4XH7A99569	ThinkSystem 2.5" 1x1 HDD Filler by 8 units (contains 8x single drive-bay fillers)

M.2 drives

The server supports one or two M.2 form-factor SATA drives for use as an operating system boot solution or as additional storage. The M.2 drives install into an M.2 module which is mounted horizontally in the server adjacent to the internal storage controller slot as shown in the Components and connectors section.

Configuration rules:

- When the onboard SATA controller is used in conjunction with M.2 then at most 12 SATA drives can be configured
- M.2 is not supported in configurations of 16 or more 2.5-inch NVMe drives in the front bays.
- Performance fans are required for enhanced cooling. See the Cooling section for ordering information. In CTO orders, the performance fans will be automatically derived in the order.

There are two M.2 modules supported, as listed in the following table. The table also includes the cable kit needed for field upgrades.

Field upgrades: When ordering either option part number as a field upgrade, you will also need to order the M.2 Cable Kit which includes the necessary cables to connect the M.2 modules to the server. For CTO orders, the cable kit is not required; the cable and brackets are automatically included in the order. For field upgrades, you will also need to order the performance fans if they are not already installed in your server. See the Cooling section for ordering information.

Table 33. M.2 modules

Part number	Feature code	Description	Maximum supported	Windows 10/11 support
4Y37A09739	B5XH	ThinkSystem M.2 SATA 2-Bay RAID Enablement Kit	1	No
4Y37A09738	B5XJ	ThinkSystem M.2 SATA/NVMe 2-Bay Enablement Kit	1	Supported
4X97A59730	None	ThinkSystem SR635/SR655 M.2 Cable Kit (only needed for field upgrade to add 4Y37A09739 or 4Y37A09738) ● Bracket to mount the M.2 module ● Bracket for two supercap modules ● M.2 signal/power cable	1	Supported

Supported drives are listed in the Internal drive options section.

The SATA RAID Enablement Kit has the following features:

- Supports one or two SATA M.2 drives
- Support 42mm, 60mm and 80mm drive form factors (2242, 2260 and 2280)
- RAID support via an onboard Marvell 88SE9230 SATA RAID Controller
- Support JBOD, RAID-0 and RAID-1 (RAID support requires two M.2 drives)
- PCIe 2.0 x2 host interface; 6Gbps SATA connection to the drives
- Management and configuration support via UEFI and OS-based tools
- Supports monitoring and reporting of events and temperature through I2C
- Firmware update via Lenovo firmware update tools

The SATA/NVMe Enablement Kit has the following features:

- Supports one or two M.2 drives, either SATA or NVMe
- When two drives installed, they must be either both SATA or both NVMe
- Support 42mm, 60mm and 80mm drive form factors (2242, 2260 and 2280)
- JBOD support only; no RAID support
- Either 6Gbps SATA or PCIe 3.0 x1 interface to the drives depending on the drives installed
- Supports monitoring and reporting of events and temperature through I2C
- Firmware update via Lenovo firmware update tools

For further 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

Controllers for internal storage

The SR655 offers a variety of controller options for internal drives:

- Onboard SATA ports for up to 16 SATA drives
- RAID adapters and HBAs for SAS/SATA drives
- Onboard NVMe ports (for up to 16 NVMe drives)
- NVMe adapters for configurations of 20 or more NVMe drives

The server also supports M.2 adapters for boot drives.

The following table lists the adapters used for the internal storage of the server.

Table 34. Internal Storage adapter support

Part number	Feature code	Description	Power module (supercap)	Slots supported	Max qty	Windows 10/11 support
SAS/SATA RAID - PCIe 3.0						
7Y37A01082	AUNG	ThinkSystem RAID 530-8i PCIe 12Gb Adapter	No	9,1-6	4	No
4Y37A78834	BMFT	ThinkSystem RAID 540-8i PCIe Gen4 12Gb Adapter	No	9,1-6	4	Supported
7Y37A01083*	AUNH*	ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter	No	9,1-6	3	No
4Y37A09722	B4RQ	ThinkSystem RAID 730-8i 2GB Flash PCIe 12Gb Adapter	Included	9,1-6	3	No
7Y37A01084	AUNJ	ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter	Included	9,1-6	3	No
7Y37A01085	AUNK	ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter	Included	1-6	1	No
4Y37A09721	B31E	ThinkSystem RAID 930-16i 8GB Flash PCIe 12Gb Adapter	Included	1-6	1	No
7Y37A01086	AUV1	ThinkSystem RAID 930-24i 4GB Flash PCIe 12Gb Adapter	Included	1-5**	1	No
SAS/SATA RAID - PCIe 4.0 (No support for Tri-Mode)						
4Y37A09728	B8NY	ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter	Included	9,1-6	3	Supported
4Y37A78600	BM35	ThinkSystem RAID 940-16i 4GB Flash PCIe Gen4 12Gb Adapter	Included	1-6	1	Supported
4Y37A09733	B8P8	ThinkSystem RAID 940-32i 8GB Flash PCIe Gen4 12Gb Adapter	Included	1-5**	1	No
SAS/SATA HBA						
7Y37A01088	AUNL	ThinkSystem 430-8i SAS/SATA 12Gb HBA	No	9,1-6	4	No
7Y37A01089	AUNM	ThinkSystem 430-16i SAS/SATA 12Gb HBA	No	1-6	2	No
SAS/SATA HBA - PCIe 4.0						
4Y37A78601	BM51	ThinkSystem 440-8i SAS/SATA PCIe Gen4 12Gb HBA	No	9,1-6	4	No
4Y37A78602	BM50	ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb HBA	No	1-6	2	No
NVMe Adapters						
4C57A65446	B98C	ThinkSystem 4-Port PCIe Gen4 NVMe Retimer Adapter	No	1,4,5	3	No
4Y37A09737	B8P5	ThinkSystem 1611-8P PCIe Gen4 Switch Adapter	No	1,5	2	No
4Y37A09719	B22D	ThinkSystem 810-4P NVMe Switch Adapter	No	1,4,5,6	4	No
7Y37A01081	BA4N	ThinkSystem 1610-4P NVMe Switch Adapter	No	1,4,5	3	No

* The RAID 730-8i 1GB Cache adapter is not available in USA and Canada.
** When 4x3.5" rear drive bays are configured, the 930-24i or 940-32i can only be installed in slot 3. When 4x2.5" rear drive bays are configured, the 930-24i or 940-32i can only be installed in slots 1 or 2.

For a comparison of the functions of the supported storage adapters, see the ThinkSystem RAID Adapter and HBA Reference:
https://lenovopress.com/lp1288#sr655-support=SR655

Configuration notes:

- **Mixing of adapter families not supported**: It is not supported to have a configuration with a mix of X30 and X40 adapter families. For example, you cannot build a configuration with a 930 RAID adapter and 940 RAID adapter.

- **Tri-Mode not supported**: In the SR655, the Tri-Mode (Trimode) feature of the RAID 940-8i and 940-16i adapters (support for NVMe U.3 drives) is not supported.

- **Gen 3 NVMe Switch Adapters and Gen 4 NVMe drives**: The 810-4P and 1610-4P NVMe Switch Adapters operate at PCIe 3.0 speeds. When PCIe 4.0 NVMe drives are attached to an NVMe Switch Adapter, the drives will only operate at PCIe 3.0 speeds.

- **M.2 and onboard SATA**: If you are configuring M.2 and onboard SATA, then at most 12 SATA drives can be connected.

- **Field upgrades**: If you are adding a RAID adapter to the SR655 as a field upgrade, you may need a Supercap Installation Kit as described in the Field upgrades section.

- **RAID 530-8i firmware**: If you plan to use the RAID 530-8i in the SR655, it must have firmware 50.3.0-1032 or later applied before it can be used in the server. If the adapter you plan to use has older firmware (for example, you are using an adapter you previously purchased), it must first be upgrade by installing it in another server and upgrading the firmware there. For more information, see Support tip HT509177.

For more information about the adapters see the product guides in the RAID adapters or HBA sections of the Lenovo Press web site:
https://lenovopress.com/servers/options/raid
https://lenovopress.com/servers/options/hba

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
- 2.5-inch hot-swap PCIe 4.0 NVMe SSDs
- 2.5-inch hot-swap PCIe 3.0 NVMe 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
- 3.5-inch hot-swap PCIe 4.0 NVMe SSDs
- 3.5-inch hot-swap PCIe 3.0 NVMe SSDs

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 35. 2.5-inch hot-swap 12 Gb SAS HDDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
2.5-inch hot-swap HDDs - 12 Gb SAS 15K					
7XB7A00021	AULV	ThinkSystem 2.5" 300GB 15K SAS 12Gb Hot Swap 512n HDD	No	32	No
7XB7A00022	AULW	ThinkSystem 2.5" 600GB 15K SAS 12Gb Hot Swap 512n HDD	No	32	No
7XB7A00023	AULX	ThinkSystem 2.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD	No	32	No
2.5-inch hot-swap HDDs - 12 Gb SAS 10K					
7XB7A00024	AULY	ThinkSystem 2.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD	No	32	No
7XB7A00025	AULZ	ThinkSystem 2.5" 600GB 10K SAS 12Gb Hot Swap 512n HDD	No	32	No
7XB7A00026	AUM0	ThinkSystem 2.5" 900GB 10K SAS 12Gb Hot Swap 512n HDD	No	32	No
7XB7A00027	AUM1	ThinkSystem 2.5" 1.2TB 10K SAS 12Gb Hot Swap 512n HDD	No	32	No
7XB7A00028	AUM2	ThinkSystem 2.5" 1.8TB 10K SAS 12Gb Hot Swap 512e HDD	No	32	No
4XB7A83970	BRG7	ThinkSystem 2.5" 2.4TB 10K SAS 12Gb Hot Swap 512e HDD v2	No	32	Support
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	32	No
7XB7A00035	AUM7	ThinkSystem 2.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	32	No
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	32	No

Table 36. 2.5-inch hot-swap 6 Gb SATA HDDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
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	32	Support
7XB7A00037	AUUJ	ThinkSystem 2.5" 2TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	32	Support

Table 37. 2.5-inch hot-swap 24 Gb SAS SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
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	32	No
4XB7A80341	BNW9	ThinkSystem 2.5" PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	Support	32	No
4XB7A80342	BNW6	ThinkSystem 2.5" PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	Support	32	No
4XB7A80343	BP3K	ThinkSystem 2.5" PM1655 6.4TB Mixed Use SAS 24Gb HS SSD	Support	32	No
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	32	No
4XB7A80319	BNWE	ThinkSystem 2.5" PM1653 1.92TB Read Intensive SAS 24Gb HS SSD	Support	32	No
4XB7A80320	BNWF	ThinkSystem 2.5" PM1653 3.84TB Read Intensive SAS 24Gb HS SSD	Support	32	No
4XB7A80321	BP3E	ThinkSystem 2.5" PM1653 7.68TB Read Intensive SAS 24Gb HS SSD	Support	32	No
4XB7A80322	BP3J	ThinkSystem 2.5" PM1653 15.36TB Read Intensive SAS 24Gb HS SSD	Support	32	No
4XB7A80323	BP3D	ThinkSystem 2.5" PM1653 30.72TB Read Intensive SAS 24Gb HS SSD	Support	32	No

Table 38. 2.5-inch hot-swap 12 Gb SAS SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
2.5-inch hot-swap SSDs - 12 Gb SAS - Write Intensive/Performance (10+ DWPD)					
4XB7A83214	BR10	ThinkSystem 2.5" Nytro 3750 400GB Write Intensive SAS 12Gb HS SSD	Support	32	No
4XB7A83215	BR0Z	ThinkSystem 2.5" Nytro 3750 800GB Write Intensive SAS 12Gb HS SSD	Support	32	No
4XB7A83216	BR0Y	ThinkSystem 2.5" Nytro 3750 1.6TB Write Intensive SAS 12Gb HS SSD	Support	32	No
4XB7A83217	BR0X	ThinkSystem 2.5" Nytro 3750 3.2TB Write Intensive SAS 12Gb HS SSD	Support	32	No
4XB7A70006	BG07	ThinkSystem 2.5" Nytro 3732 400GB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A70005	BG06	ThinkSystem 2.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A70007	BFZZ	ThinkSystem 2.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD SED	Support	32	No
4XB7A70004	BG05	ThinkSystem 2.5" Nytro 3732 1.6TB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A70003	BG04	ThinkSystem 2.5" Nytro 3732 3.2TB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A10219	B4Y4	ThinkSystem 2.5" SS530 400GB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A10230	B4Y5	ThinkSystem 2.5" SS530 800GB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A10231	B4Y6	ThinkSystem 2.5" SS530 1.6TB Performance SAS 12Gb Hot Swap SSD	No	32	No
4XB7A10232	B4Y7	ThinkSystem 2.5" SS530 3.2TB Performance SAS 12Gb Hot Swap SSD	No	32	No
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	32	No
4XB7A17063	B8J4	ThinkSystem 2.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	No	32	No
4XB7A17065	B8JA	ThinkSystem 2.5" PM1645a 6.4TB Mainstream SAS 12Gb Hot Swap SSD	No	32	No
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	32	No
4XB7A38176	B91B	ThinkSystem 2.5" PM1643a 1.92TB Entry SAS 12Gb Hot Swap SSD	No	32	No
4XB7A17054	B91C	ThinkSystem 2.5" PM1643a 3.84TB Entry SAS 12Gb Hot Swap SSD	No	32	No
4XB7A17055	B91D	ThinkSystem 2.5" PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD	No	32	No

Table 39. 2.5-inch hot-swap 6 Gb SATA SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
2.5-inch hot-swap SSDs - 6 Gb SATA - Mixed Use/Mainstream (3-5 DWPD)					
4XB7A90884	BYM2	ThinkSystem 2.5" VA 480GB Mixed Use SATA 6Gb HS SSD v2	No	32	Support
4XB7A90885	BYM4	ThinkSystem 2.5" VA 960GB Mixed Use SATA 6Gb HS SSD v2	No	32	Support
4XB7A90886	BYM5	ThinkSystem 2.5" VA 1.92TB Mixed Use SATA 6Gb HS SSD v2	No	32	Support
4XB7A90887	BYM6	ThinkSystem 2.5" VA 3.84TB Mixed Use SATA 6Gb HS SSD v2	No	32	Support
4XB7A82289	BQ21	ThinkSystem 2.5" 5400 MAX 480GB Mixed Use SATA 6Gb HS SSD	Support	32	Support
4XB7A82290	BQ24	ThinkSystem 2.5" 5400 MAX 960GB Mixed Use SATA 6Gb HS SSD	Support	32	Support
4XB7A82291	BQ22	ThinkSystem 2.5" 5400 MAX 1.92TB Mixed Use SATA 6Gb HS SSD	Support	32	Support
4XB7A82292	BQ23	ThinkSystem 2.5" 5400 MAX 3.84TB Mixed Use SATA 6Gb HS SSD	Support	32	Support
4XB7A17125	BA7Q	ThinkSystem 2.5" S4620 480GB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A17126	BA4T	ThinkSystem 2.5" S4620 960GB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A17127	BA4U	ThinkSystem 2.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A17128	BK7L	ThinkSystem 2.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A17087	B8J1	ThinkSystem 2.5" 5300 240GB Mainstream SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17089	B8J6	ThinkSystem 2.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17090	B8JE	ThinkSystem 2.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17091	B8J7	ThinkSystem 2.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A64222	BEMB	ThinkSystem 2.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD SED	Support	32	Support
4XB7A13633	B49L	ThinkSystem 2.5" S4610 240GB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A13634	B49M	ThinkSystem 2.5" S4610 480GB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A13635	B49N	ThinkSystem 2.5" S4610 960GB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A13636	B49P	ThinkSystem 2.5" S4610 1.92TB Mixed Use SATA 6Gb HS SSD	No	32	Support
4XB7A13637	B49Q	ThinkSystem 2.5" S4610 3.84TB Mixed Use SATA 6Gb HS SSD	No	32	Support

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A10238	B489	ThinkSystem 2.5" 5200 480GB Mainstream SATA 6Gb Hot Swap SSD	No	32	No
4XB7A10239	B48A	ThinkSystem 2.5" 5200 960GB Mainstream SATA 6Gb Hot Swap SSD	No	32	No
2.5-inch hot-swap SSDs - 6 Gb SATA - Read Intensive/Entry (<3 DWPD)					
4XB7A90872	BYLQ	ThinkSystem 2.5" VA 240GB Read Intensive SATA 6Gb HS SSD v2	No	32	Support
4XB7A90873	BYLR	ThinkSystem 2.5" VA 480GB Read Intensive SATA 6Gb HS SSD v2	No	32	Support
4XB7A90874	BYLS	ThinkSystem 2.5" VA 960GB Read Intensive SATA 6Gb HS SSD v2	No	32	Support
4XB7A90875	BYLT	ThinkSystem 2.5" VA 1.92TB Read Intensive SATA 6Gb HS SSD v2	No	32	Support
4XB7A90876	BYLU	ThinkSystem 2.5" VA 3.84TB Read Intensive SATA 6Gb HS SSD v2	No	32	Support
4XB7A90877	BYLV	ThinkSystem 2.5" VA 7.68TB Read Intensive SATA 6Gb HS SSD v2	No	32	Support
4XB7A89423	BXDY	ThinkSystem 2.5" CM893a 1.92TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A87524	BWKN	ThinkSystem 2.5" PM893a 480GB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A87525	BWKM	ThinkSystem 2.5" PM893a 960GB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A87526	BWKL	ThinkSystem 2.5" PM893a 1.92TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A87527	BWKK	ThinkSystem 2.5" PM893a 3.84TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A87528	BYLK	ThinkSystem 2.5" PM893a 7.68TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A82258	BQ1Q	ThinkSystem 2.5" 5400 PRO 240GB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A82259	BQ1P	ThinkSystem 2.5" 5400 PRO 480GB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A82260	BQ1R	ThinkSystem 2.5" 5400 PRO 960GB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A82261	BQ1X	ThinkSystem 2.5" 5400 PRO 1.92TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A82262	BQ1S	ThinkSystem 2.5" 5400 PRO 3.84TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A82263	BQ1T	ThinkSystem 2.5" 5400 PRO 7.68TB Read Intensive SATA 6Gb HS SSD	Support	32	Support
4XB7A72438	BM8B	ThinkSystem 2.5" PM893 480GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A72439	BM8A	ThinkSystem 2.5" PM893 960GB Read Intensive SATA 6Gb HS SSD	No	32	Support

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A72440	BM89	ThinkSystem 2.5" PM893 1.92TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A72441	BM88	ThinkSystem 2.5" PM893 3.84TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A72442	BM87	ThinkSystem 2.5" PM893 7.68TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A17072	B99D	ThinkSystem 2.5" S4520 240GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A17101	BA7G	ThinkSystem 2.5" S4520 480GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A17102	BA7H	ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A17103	BA7J	ThinkSystem 2.5" S4520 1.92TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A17104	BK77	ThinkSystem 2.5" S4520 3.84TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A17105	BK78	ThinkSystem 2.5" S4520 7.68TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A38271	BCTC	ThinkSystem 2.5" Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A38272	BCTD	ThinkSystem 2.5" Multi Vendor 480GB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A38273	BCTE	ThinkSystem 2.5" Multi Vendor 960GB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A38274	BCTF	ThinkSystem 2.5" Multi Vendor 1.92TB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A38275	BCTG	ThinkSystem 2.5" Multi Vendor 3.84TB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17075	B8HV	ThinkSystem 2.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17076	B8JM	ThinkSystem 2.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17077	B8HP	ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A38141	BE29	ThinkSystem 2.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD SED	Support	32	Support
4XB7A17078	B8J5	ThinkSystem 2.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17079	B8JP	ThinkSystem 2.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A17080	B8J2	ThinkSystem 2.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD	No	32	Support
4XB7A38185	B9AC	ThinkSystem 2.5" 5210 960GB Entry SATA 6Gb Hot Swap QLC SSD	No	32	Support
4XB7A38144	B7EW	ThinkSystem 2.5" 5210 1.92TB Entry SATA 6Gb Hot Swap QLC SSD	No	32	Support

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A38145	B7EX	ThinkSystem 2.5" 5210 3.84TB Entry SATA 6Gb Hot Swap QLC SSD	No	32	Support
4XB7A38146	B7EY	ThinkSystem 2.5" 5210 7.68TB Entry SATA 6Gb Hot Swap QLC SSD	No	32	Support
4XB7A10247	B498	ThinkSystem 2.5" S4510 240GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A10248	B499	ThinkSystem 2.5" S4510 480GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A10249	B49A	ThinkSystem 2.5" S4510 960GB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A13622	B49B	ThinkSystem 2.5" S4510 1.92TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A13623	B49C	ThinkSystem 2.5" S4510 3.84TB Read Intensive SATA 6Gb HS SSD	No	32	Support
4XB7A10153	B2X2	ThinkSystem 2.5" 5200 480GB Entry SATA 6Gb Hot Swap SSD	No	32	No
4XB7A10154	B2X3	ThinkSystem 2.5" 5200 960GB Entry SATA 6Gb Hot Swap SSD	No	32	No
4XB7A10155	B2X4	ThinkSystem 2.5" 5200 1.92TB Entry SATA 6Gb Hot Swap SSD	No	32	No
4XB7A10156	B2X5	ThinkSystem 2.5" 5200 3.84TB Entry SATA 6Gb Hot Swap SSD	No	32	No
4XB7A10157	B2X6	ThinkSystem 2.5" 5200 7.68TB Entry SATA 6Gb Hot Swap SSD	No	32	No

Table 40. 2.5-inch hot-swap PCIe 4.0 NVMe SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
2.5-inch SSDs - U.2 PCIe 4.0 NVMe - Mixed Use/Mainstream (3-5 DWPD)					
4XB7B01879	C6M2	ThinkSystem 2.5" U.2 Solidigm P5620 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7B01880	C6M3	ThinkSystem 2.5" U.2 Solidigm P5620 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7B01881	C6M4	ThinkSystem 2.5" U.2 Solidigm P5620 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7B01882	C6M5	ThinkSystem 2.5" U.2 Solidigm P5620 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7A17129	BNEG	ThinkSystem 2.5" U.2 P5620 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A17130	BNEH	ThinkSystem 2.5" U.2 P5620 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A17133	BNEZ	ThinkSystem 2.5" U.2 P5620 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A17136	BA4V	ThinkSystem 2.5" U.2 P5620 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A17152	BCFV	ThinkSystem 2.5" U.2 P5600 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	No	24*	Support
4XB7A17153	BCFR	ThinkSystem 2.5" U.2 P5600 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	No	24*	Support
4XB7A17154	BCFS	ThinkSystem 2.5" U.2 P5600 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	No	24*	Support
2.5-inch SSDs - U.3 PCIe 4.0 NVMe - Mixed Use/Mainstream (3-5 DWPD)					
4XB7A13971	BNEL	ThinkSystem 2.5" U.3 7450 MAX 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A84056	BRG0	ThinkSystem 2.5" U.3 7450 MAX 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A64175	BE03	ThinkSystem U.3 Kioxia CM6-V 800GB Mainstream NVMe PCIe 4.0 x4 Hot Swap SSD	No	24*	Support
4XB7A17112	B96Z	ThinkSystem U.3 Kioxia CM6-V 1.6TB Mainstream NVMe PCIe4.0 x4 Hot Swap SSD	No	24*	Support
4XB7A17113	B96T	ThinkSystem U.3 Kioxia CM6-V 3.2TB Mainstream NVMe PCIe4.0 x4 Hot Swap SSD	No	24*	Support
4XB7A17114	B96P	ThinkSystem U.3 Kioxia CM6-V 6.4TB Mainstream NVMe PCIe4.0 x4 Hot Swap SSD	No	24*	Support
2.5-inch SSDs - U.2 PCIe 4.0 NVMe - Read Intensive/Entry (<3 DWPD)					
4XB7B01867	C6MA	ThinkSystem 2.5" U.2 Solidigm P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7B01868	C6MB	ThinkSystem 2.5" U.2 Solidigm P5520 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7B01869	C6MC	ThinkSystem 2.5" U.2 Solidigm P5520 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7B01870	C7NZ	ThinkSystem 2.5" U.2 Solidigm P5520 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	No
4XB7A90099	BXMB	ThinkSystem 2.5" U.2 PM9A3 960GB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A90100	BXMA	ThinkSystem 2.5" U.2 PM9A3 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A90101	BXM9	ThinkSystem 2.5" U.2 PM9A3 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A13941	BMGD	ThinkSystem 2.5" U.2 P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A13942	BMGE	ThinkSystem 2.5" U.2 P5520 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A13943	BNEF	ThinkSystem 2.5" U.2 P5520 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A13631	BNEQ	ThinkSystem 2.5" U.2 P5520 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A17145	BCFT	ThinkSystem 2.5" U.2 P5500 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	24*	Support

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A17146	BCFW	ThinkSystem 2.5" U.2 P5500 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	24*	Support
4XB7A17147	BCFU	ThinkSystem 2.5" U.2 P5500 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	No	24*	Support
4XB7A38196	BC4Y	ThinkSystem U.2 PM1733 1.92TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	No	24*	Support
4XB7A38197	BC4Z	ThinkSystem U.2 PM1733 3.84TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	No	24*	Support
4XB7A38283	BE2E	ThinkSystem U.2 PM1733 7.68TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	No	24*	Support
4XB7A38284	BE2F	ThinkSystem U.2 PM1733 15.36TB Entry NVMe PCIe 4.0 x4 Hot Swap SSD	No	24*	Support
2.5-inch SSDs - U.3 PCIe 4.0 NVMe - Read Intensive/Entry (<3 DWPD)					
4XB7A91176	BZC1	ThinkSystem 2.5" U.3 6500 ION 30.72TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A81951	BPKX	ThinkSystem 2.5" U.3 PM1733a 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A81952	BPKY	ThinkSystem 2.5" U.3 PM1733a 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A81953	BPKZ	ThinkSystem 2.5" U.3 PM1733a 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A81954	BPL0	ThinkSystem 2.5" U.3 PM1733a 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A81999	BPL1	ThinkSystem 2.5" U.3 PM1733a 30.72TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A79649	BNF4	ThinkSystem 2.5" U.3 7450 PRO 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support
4XB7A83097	BQAV	ThinkSystem 2.5" U.3 7450 PRO 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	24*	Support

* All NVMe drives, with the exception of PM983 drives, are only supported in the front drive bays due to thermal requirements

Table 41. 2.5-inch hot-swap PCIe 3.0 NVMe SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
2.5-inch SSDs - U.2 PCIe 3.0 NVMe - Mixed Use/Mainstream (3-5 DWPD)					
4XB7A13936	B589	ThinkSystem U.2 Intel P4610 1.6TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD	No	24*	Support
4XB7A13937	B58A	ThinkSystem U.2 Intel P4610 3.2TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD	No	24*	No
4XB7A13938	B58B	ThinkSystem U.2 Intel P4610 6.4TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD	No	24*	Support
4XB7A08516	B21W	ThinkSystem U.2 Toshiba CM5-V 800GB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	24*	No
4XB7A08517	B21X	ThinkSystem U.2 Toshiba CM5-V 1.6TB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	24*	No
4XB7A08518	B21Y	ThinkSystem U.2 Toshiba CM5-V 3.2TB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	24*	No
4XB7A08519	B2XJ	ThinkSystem U.2 Toshiba CM5-V 6.4TB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	24*	No
2.5-inch SSDs - U.2 PCIe 3.0 NVMe - Read Intensive/Entry (<3 DWPD)					
4XB7A10202	B58F	ThinkSystem U.2 Intel P4510 1.0TB Entry NVMe PCIe3.0 x4 Hot Swap SSD	No	24*	No
4XB7A10204	B58G	ThinkSystem 2.5" U.2 P4510 2.0TB Read Intensive NVMe PCIe 3.0 x4 HS SSD	No	24*	Support
4XB7A10205	B58H	ThinkSystem U.2 Intel P4510 4.0TB Entry NVMe PCIe3.0 x4 Hot Swap SSD	No	24*	Support
4XB7A08513	B58J	ThinkSystem U.2 Intel P4510 8.0TB Entry NVMe PCIe3.0 x4 Hot Swap SSD	No	24*	Support
4XB7A10175	B34N	ThinkSystem U.2 PM983 1.92TB Entry NVMe PCIe 3.0 x4 Hot Swap SSD	No	32	Support
4XB7A10176	B34P	ThinkSystem U.2 PM983 3.84TB Entry NVMe PCIe 3.0 x4 Hot Swap SSD	No	32	Support
4XB7A10177	B4D3	ThinkSystem U.2 PM983 7.68TB Entry NVMe PCIe3.0 x4 Hot Swap SSD	No	32	Support

* All NVMe drives, with the exception of PM983 drives, are only supported in the front drive bays due to thermal requirements

Table 42. 3.5-inch hot-swap 12 Gb SAS HDDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
3.5-inch hot-swap HDDs - 12 Gb SAS 10K					
7XB7A00063	B1JJ	ThinkSystem 3.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD	No	20	No
3.5-inch hot-swap HDDs - 12 Gb SAS 15K					
7XB7A00039	AUU3	ThinkSystem 3.5" 600GB 15K SAS 12Gb Hot Swap 512n HDD	No	20	No
7XB7A00040	AUUC	ThinkSystem 3.5" 900GB 15K SAS 12Gb Hot Swap 512e HDD	No	20	No
3.5-inch hot-swap HDDs - 12 Gb NL SAS					

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7B01233	C5WY	ThinkSystem 3.5" 2TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00042	AUU5	ThinkSystem 3.5" 2TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	20	No
4XB7B01235	C5X9	ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00043	AUU6	ThinkSystem 3.5" 4TB 7.2K SAS 12Gb Hot Swap 512n HDD	No	20	No
4XB7B01237	C5XB	ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00044	AUU7	ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7B01239	C5XD	ThinkSystem 3.5" 8TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00045	B0YR	ThinkSystem 3.5" 8TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7B01241	C5XF	ThinkSystem 3.5" 10TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00046	AUUG	ThinkSystem 3.5" 10TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A82680	BPL2	ThinkSystem SR655 3.5" 10TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A93788	C4DA	ThinkSystem 3.5" 12TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	Support
4XB7A17223	BCM6	ThinkSystem SR635/SR655 3.5" 12TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A17224	BCM4	ThinkSystem SR635/SR655 3.5" 14TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A93786	C4D8	ThinkSystem 3.5" 16TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	Support
4XB7A80284	BMUZ	ThinkSystem SR655 3.5" 16TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A76340	BHX6	ThinkSystem SR635/SR645/SR655 3.5" 18TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A80353	BPKU	ThinkSystem 3.5" 20TB 7.2K SAS 12Gb Hot Swap 512e HDD	No	20	No
4XB7A93784	C4D6	ThinkSystem 3.5" 20TB 7.2K SAS 12Gb Hot Swap 512e HDD v2	Support	20	Support
4XB7A83766	BTR7	ThinkSystem 3.5" 22TB 7.2K SAS 12Gb Hot Swap 512e HDD	Support	20	Support
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	20	No
7XB7A00048	B0YP	ThinkSystem 3.5" 6TB 7.2K SAS 12Gb Hot Swap 512e HDD FIPS	Support	20	No

Table 43. 3.5-inch hot-swap 6 Gb SATA HDDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
3.5-inch hot-swap HDDs - 6 Gb NL SATA					
4XB7A97045	C5X6	ThinkSystem 3.5" 1TB 7.2K SATA 6Gb Hot Swap 512n HDD v2	Support	20	No
4XB7B01234	C5X8	ThinkSystem 3.5" 2TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00050	AUUD	ThinkSystem 3.5" 2TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	20	Support
4XB7B01236	C5XA	ThinkSystem 3.5" 4TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00051	AUU8	ThinkSystem 3.5" 4TB 7.2K SATA 6Gb Hot Swap 512n HDD	No	20	Support
4XB7B01238	C5XC	ThinkSystem 3.5" 6TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00052	AUUA	ThinkSystem 3.5" 6TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7B01240	C5XE	ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00053	AUU9	ThinkSystem 3.5" 8TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7B01242	C5X7	ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	No
7XB7A00054	AUUB	ThinkSystem 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A82681	BPL3	ThinkSystem SR655 3.5" 10TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A93787	C4D9	ThinkSystem 3.5" 12TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	Support
4XB7A17226	BCM5	ThinkSystem SR635/SR655 3.5" 12TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A38184	BCM3	ThinkSystem SR635/SR655 3.5" 14TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A93785	C4D7	ThinkSystem 3.5" 16TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	Support
4XB7A80285	BMUY	ThinkSystem SR655 3.5" 16TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A76341	BHX5	ThinkSystem SR635/SR645/SR655 3.5" 18TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A80354	BPKV	ThinkSystem 3.5" 20TB 7.2K SATA 6Gb Hot Swap 512e HDD	No	20	Support
4XB7A93783	C4D5	ThinkSystem 3.5" 20TB 7.2K SATA 6Gb Hot Swap 512e HDD v2	Support	20	Support
4XB7A83765	BTR8	ThinkSystem 3.5" 22TB 7.2K SATA 6Gb Hot Swap 512e HDD	Support	20	Support

Table 44. 3.5-inch hot-swap 24 Gb SAS SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
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	20	No
4XB7A80345	BNWA	ThinkSystem 3.5" PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	Support	20	No
4XB7A80346	BNWB	ThinkSystem 3.5" PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	Support	20	No
4XB7A80347	BP3G	ThinkSystem 3.5" PM1655 6.4TB Mixed Use SAS 24Gb HS SSD	Support	20	No
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	20	No
4XB7A80325	BNWG	ThinkSystem 3.5" PM1653 1.92TB Read Intensive SAS 24Gb HS SSD	Support	20	No
4XB7A80326	BNWH	ThinkSystem 3.5" PM1653 3.84TB Read Intensive SAS 24Gb HS SSD	Support	20	No
4XB7A80327	BP3F	ThinkSystem 3.5" PM1653 7.68TB Read Intensive SAS 24Gb HS SSD	Support	20	No
4XB7A80328	BP3H	ThinkSystem 3.5" PM1653 15.36TB Read Intensive SAS 24Gb HS SSD	Support	20	No

Table 45. 3.5-inch hot-swap 12 Gb SAS SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
3.5-inch hot-swap SSDs - 12 Gb SAS - Write Intensive/Performance (10+ DWPD)					
4XB7A83218	BR0W	ThinkSystem 3.5" Nytro 3750 400GB Write Intensive SAS 12Gb HS SSD	Support	20	No
4XB7A83219	BR0V	ThinkSystem 3.5" Nytro 3750 800GB Write Intensive SAS 12Gb HS SSD	Support	20	No
4XB7A83220	BR0U	ThinkSystem 3.5" Nytro 3750 1.6TB Write Intensive SAS 12Gb HS SSD	Support	20	No
4XB7A83221	BR0T	ThinkSystem 3.5" Nytro 3750 3.2TB Write Intensive SAS 12Gb HS SSD	Support	20	No
4XB7A70011	BG03	ThinkSystem 3.5" Nytro 3732 400GB Performance SAS 12Gb Hot Swap SSD	No	20	No
4XB7A70010	BG02	ThinkSystem 3.5" Nytro 3732 800GB Performance SAS 12Gb Hot Swap SSD	No	20	No
4XB7A70009	BG01	ThinkSystem 3.5" Nytro 3732 1.6TB Performance SAS 12Gb Hot Swap SSD	No	20	No
4XB7A70008	BG00	ThinkSystem 3.5" Nytro 3732 3.2TB Performance SAS 12Gb Hot Swap SSD	No	20	No
4XB7A10234	B4Y8	ThinkSystem 3.5" SS530 800GB Performance SAS 12Gb Hot Swap SSD	No	20	No
4XB7A10235	B4Y9	ThinkSystem 3.5" SS530 1.6TB Performance SAS 12Gb Hot Swap SSD	No	20	No
4XB7A10236	B4YA	ThinkSystem 3.5" SS530 3.2TB Performance SAS 12Gb Hot Swap SSD	No	20	No
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	20	No
4XB7A17043	B8JN	ThinkSystem 3.5" PM1645a 1.6TB Mainstream SAS 12Gb Hot Swap SSD	No	20	No
4XB7A17067	B8JK	ThinkSystem 3.5" PM1645a 3.2TB Mainstream SAS 12Gb Hot Swap SSD	No	20	No
4XB7A17068	B8JG	ThinkSystem 3.5" PM1645a 6.4TB Mainstream SAS 12Gb Hot Swap SSD	No	20	No
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	20	No
4XB7A17059	BEVK	ThinkSystem 3.5" PM1643a 7.68TB Entry SAS 12Gb Hot Swap SSD	No	20	No

Table 46. 3.5-inch hot-swap 6 Gb SATA SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
3.5-inch hot-swap SSDs - 6 Gb SATA - Mixed Use/Mainstream (3-5 DWPD)					

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A90888	BYM3	ThinkSystem 3.5" VA 480GB Mixed Use SATA 6Gb HS SSD v2	No	20	Support
4XB7A90889	BYM7	ThinkSystem 3.5" VA 960GB Mixed Use SATA 6Gb HS SSD v2	No	20	Support
4XB7A90890	BYM8	ThinkSystem 3.5" VA 1.92TB Mixed Use SATA 6Gb HS SSD v2	No	20	Support
4XB7A90891	BYLX	ThinkSystem 3.5" VA 3.84TB Mixed Use SATA 6Gb HS SSD v2	No	20	Support
4XB7A87202	BURK	ThinkSystem 3.5" 5400 MAX 1.92TB Mixed Use SATA 6Gb HS SSD	Support	20	Support
4XB7A17137	BA4W	ThinkSystem 3.5" S4620 480GB Mixed Use SATA 6Gb HS SSD	No	20	Support
4XB7A17138	BA4X	ThinkSystem 3.5" S4620 960GB Mixed Use SATA 6Gb HS SSD	No	20	Support
4XB7A17139	BA4Y	ThinkSystem 3.5" S4620 1.92TB Mixed Use SATA 6Gb HS SSD	No	20	Support
4XB7A17140	BK7P	ThinkSystem 3.5" S4620 3.84TB Mixed Use SATA 6Gb HS SSD	No	20	Support
4XB7A17096	B8JL	ThinkSystem 3.5" 5300 240GB Mainstream SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17098	B8J0	ThinkSystem 3.5" 5300 960GB Mainstream SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17099	B8HR	ThinkSystem 3.5" 5300 1.92TB Mainstream SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17100	B8HX	ThinkSystem 3.5" 5300 3.84TB Mainstream SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A10243	B48E	ThinkSystem 3.5" 5200 480GB Mainstream SATA 6Gb Hot Swap SSD	No	20	No
4XB7A10244	B48F	ThinkSystem 3.5" 5200 960GB Mainstream SATA 6Gb Hot Swap SSD	No	20	No
3.5-inch hot-swap SSDs - 6 Gb SATA - Read Intensive/Entry (<3 DWPD)					
4XB7A90878	BYLW	ThinkSystem 3.5" VA 240GB Read Intensive SATA 6Gb HS SSD v2	No	20	Support
4XB7A90879	BYLJ	ThinkSystem 3.5" VA 480GB Read Intensive SATA 6Gb HS SSD v2	No	20	Support
4XB7A90880	BYLY	ThinkSystem 3.5" VA 960GB Read Intensive SATA 6Gb HS SSD v2	No	20	Support
4XB7A90881	BYLZ	ThinkSystem 3.5" VA 1.92TB Read Intensive SATA 6Gb HS SSD v2	No	20	Support
4XB7A90882	BYM0	ThinkSystem 3.5" VA 3.84TB Read Intensive SATA 6Gb HS SSD v2	No	20	Support
4XB7A90883	BYM1	ThinkSystem 3.5" VA 7.68TB Read Intensive SATA 6Gb HS SSD v2	No	20	Support
4XB7A17118	BA7K	ThinkSystem 3.5" S4520 240GB Read Intensive SATA 6Gb HS SSD	No	20	Support

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
4XB7A17119	BA7L	ThinkSystem 3.5" S4520 480GB Read Intensive SATA 6Gb HS SSD	No	20	Support
4XB7A17120	BA7M	ThinkSystem 3.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	No	20	Support
4XB7A17121	BA7N	ThinkSystem 3.5" S4520 1.92TB Read Intensive SATA 6Gb HS SSD	No	20	Support
4XB7A17122	BK7F	ThinkSystem 3.5" S4520 3.84TB Read Intensive SATA 6Gb HS SSD	No	20	Support
4XB7A17123	BK7G	ThinkSystem 3.5" S4520 7.68TB Read Intensive SATA 6Gb HS SSD	No	20	Support
4XB7A38276	BCTH	ThinkSystem 3.5" Multi Vendor 240GB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A38277	BCTJ	ThinkSystem 3.5" Multi Vendor 480GB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A38278	BCTK	ThinkSystem 3.5" Multi Vendor 960GB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A38279	BCTL	ThinkSystem 3.5" Multi Vendor 1.92TB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A38281	BCTM	ThinkSystem 3.5" Multi Vendor 3.84TB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17081	B8JB	ThinkSystem 3.5" 5300 240GB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17082	B8J9	ThinkSystem 3.5" 5300 480GB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17083	B8JC	ThinkSystem 3.5" 5300 960GB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17084	B8HZ	ThinkSystem 3.5" 5300 1.92TB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17085	B8HQ	ThinkSystem 3.5" 5300 3.84TB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A17086	B8J3	ThinkSystem 3.5" 5300 7.68TB Entry SATA 6Gb Hot Swap SSD	No	20	Support
4XB7A10158	B2X7	ThinkSystem 3.5" 5200 480GB Entry SATA 6Gb Hot Swap SSD	No	20	No
4XB7A10159	B2X8	ThinkSystem 3.5" 5200 960GB Entry SATA 6Gb Hot Swap SSD	No	20	No
4XB7A10160	B2X9	ThinkSystem 3.5" 5200 1.92TB Entry SATA 6Gb Hot Swap SSD	No	20	No

Table 47. 3.5-inch hot-swap PCIe 4.0 NVMe SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
3.5-inch SSDs - U.2 PCIe 4.0 NVMe - Mixed Use/Mainstream (3-5 DWPD)					
4XB7B01883	C6M6	ThinkSystem 3.5" U.2 Solidigm P5620 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7B01884	C6M7	ThinkSystem 3.5" U.2 Solidigm P5620 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7B01885	C6M8	ThinkSystem 3.5" U.2 Solidigm P5620 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7B01886	C6M9	ThinkSystem 3.5" U.2 Solidigm P5620 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7A17141	BNEK	ThinkSystem 3.5" U.2 P5620 1.6TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
4XB7A17143	BNEM	ThinkSystem 3.5" U.2 P5620 3.2TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
4XB7A17144	BNEN	ThinkSystem 3.5" U.2 P5620 6.4TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
4XB7A17148	BNEP	ThinkSystem 3.5" U.2 P5620 12.8TB Mixed Use NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
3.5-inch SSDs - U.2 PCIe 4.0 NVMe - Read Intensive/Entry (<3 DWPD)					
4XB7B01871	C6MD	ThinkSystem 3.5" U.2 Solidigm P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7B01872	C6ME	ThinkSystem 3.5" U.2 Solidigm P5520 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7B01873	C6MF	ThinkSystem 3.5" U.2 Solidigm P5520 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7B01874	C7P0	ThinkSystem 3.5" U.2 Solidigm P5520 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	No
4XB7A13632	BNES	ThinkSystem 3.5" U.2 P5520 1.92TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
4XB7A76777	BNET	ThinkSystem 3.5" U.2 P5520 3.84TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
4XB7A76778	BNEU	ThinkSystem 3.5" U.2 P5520 7.68TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	Support
4XB7A76779	BNF0	ThinkSystem 3.5" U.2 P5520 15.36TB Read Intensive NVMe PCIe 4.0 x4 HS SSD	Support	4	Support

No support for 3.5-inch AnyBay backplane: The 3.5-inch hot-swap PCIe 4.0 NVMe SSDs listed in the table above are not supported with the ThinkSystem 2U 3.5" AnyBay 12-Bay Backplane (AUR8, 4XH7A09831).

Table 48. 3.5-inch hot-swap PCIe 3.0 NVMe SSDs

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
3.5-inch SSDs - U.2 PCIe 3.0 NVMe - Mixed Use/Mainstream (3-5 DWPD)					
4XB7A13944	B58C	ThinkSystem 3.5" Intel P4610 1.6TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD	No	4	Support
4XB7A13945	B58D	ThinkSystem 3.5" Intel P4610 3.2TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD	No	4	No
4XB7A13946	B58E	ThinkSystem 3.5" Intel P4610 6.4TB Mainstream NVMe PCIe3.0 x4 Hot Swap SSD	No	4	Support
4XB7A08532	B21Z	ThinkSystem 3.5" Toshiba CM5-V 800GB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	4	No
4XB7A08533	B220	ThinkSystem 3.5" Toshiba CM5-V 1.6TB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	4	No
4XB7A08534	B221	ThinkSystem 3.5" Toshiba CM5-V 3.2TB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	4	No
4XB7A08535	B2XK	ThinkSystem 3.5" Toshiba CM5-V 6.4TB Mainstream NVMe PCIe 3.0 x4 Hot Swap SSD	No	4	No
3.5-inch SSDs - U.2 PCIe 3.0 NVMe - Read Intensive/Entry (<3 DWPD)					
4XB7A10178	B34Q	ThinkSystem 3.5" PM983 1.92TB Entry NVMe PCIe 3.0 x4 Hot Swap SSD	No	4	Support
4XB7A10179	B34R	ThinkSystem 3.5" PM983 3.84TB Entry NVMe PCIe 3.0 x4 Hot Swap SSD	No	4	Support
4XB7A10180	B4D4	ThinkSystem 3.5" PM983 7.68TB Entry NVMe PCIe3.0 x4 Hot Swap SSD	No	4	Support

Table 49. M.2 SATA drives

Part number	Feature code	Description	SED support	Max Qty	Win 10/11 Support
M.2 SSDs - 6 Gb SATA - Read Intensive/Entry (<3 DWPD)					
4XB7A89422	BYF7	ThinkSystem M.2 ER3 240GB Read Intensive SATA 6Gb NHS SSD	Support	2	Support
4XB7A90049	BYF8	ThinkSystem M.2 ER3 480GB Read Intensive SATA 6Gb NHS SSD	Support	2	Support
4XB7A90230	BYF9	ThinkSystem M.2 ER3 960GB Read Intensive SATA 6Gb NHS SSD	Support	2	Support
4XB7A90105	BXMK	ThinkSystem M.2 ER2 240GB Read Intensive SATA 6Gb NHS SSD	Support	2	Support
4XB7A90106	BXMJ	ThinkSystem M.2 ER2 480GB Read Intensive SATA 6Gb NHS SSD	Support	2	Support
4XB7A82286	BQ1Z	ThinkSystem M.2 5400 PRO 240GB Read Intensive SATA 6Gb NHS SSD	Support	2	No
4XB7A82287	BQ1Y	ThinkSystem M.2 5400 PRO 480GB Read Intensive SATA 6Gb NHS SSD	Support	2	No
4XB7A82288	BQ20	ThinkSystem M.2 5400 PRO 960GB Read Intensive SATA 6Gb NHS SSD	Support	2	No
7N47A00129	AUUL	ThinkSystem M.2 32GB SATA 6Gbps Non-Hot Swap SSD	No	2	Support
7N47A00130	AUUV	ThinkSystem M.2 128GB SATA 6Gbps Non-Hot Swap SSD	No	2	Support
7SD7A05703	B11V	ThinkSystem M.2 5100 480GB SATA 6Gbps Non-Hot Swap SSD	No	2	Support
4XB7A14048	B5UP	ThinkSystem M.2 5100 960GB SATA 6Gbps Non-Hot Swap SSD	No	2	No
4XB7A17071	B8HS	ThinkSystem M.2 5300 240GB SATA 6Gbps Non-Hot Swap SSD	No	2	Support
4XB7A17073	B919	ThinkSystem M.2 5300 480GB SATA 6Gbps Non-Hot Swap SSD	No	2	Support
4XB7A17074	B8JJ	ThinkSystem M.2 5300 960GB SATA 6Gbps Non-Hot Swap SSD	No	2	Support

Internal backup units

The server does not supports any internal backup units, such as tape drives or RDX drives. External backup units are available as described in the External backup units section.

Optical drives

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

Table 50. 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: DVD-RAM, DVD-RW, DVD+RW, DVD+R, DVD-R, DVD-ROM, DVD-R DL, CD-RW, CD-R, CD-ROM.

I/O expansion

The server supports a total of up to 9 PCIe 4.0 slots (8 with rear access, 1 internal for a RAID adapter or HBA) plus a dedicated OCP 3.0 SFF slot for networking. Slot availability is based on riser selection.

Slot length is dependent on the use of a mid-chassis drive cage: If the mid drive cage is present then slots are half-length; if the mid drive cage is not present, then slots are full-length.

The following figure shows the locations of the rear-accessible slots for each configuration selection. The OCP slot in located in the lower-left corner.
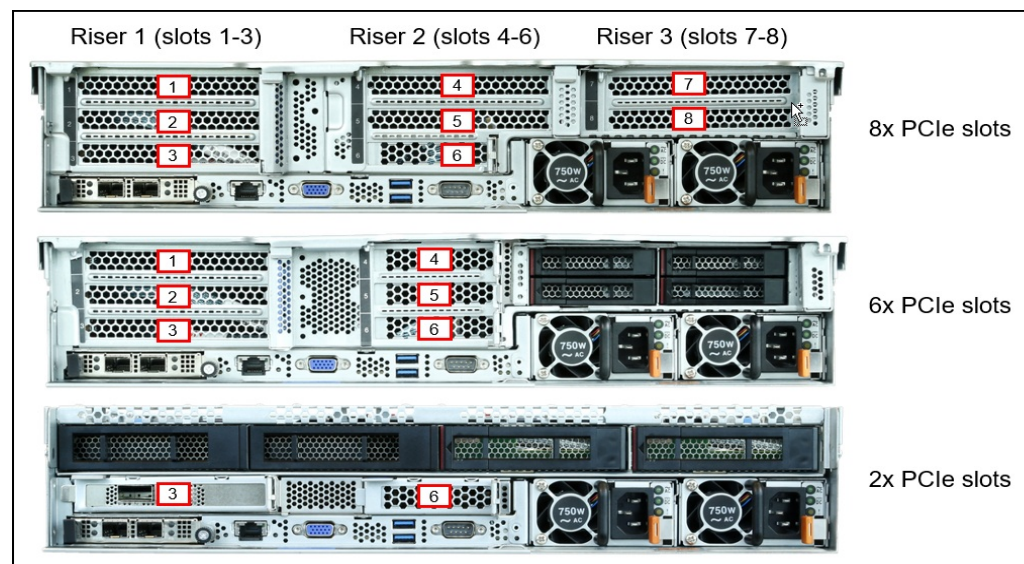
Figure 10. SR655 slots

The slots and riser cards are as follows:

- Riser 1: Slots 1, 2 and 3 - all FHHL or FHFL (16 or 32 lanes)
    - Option 1*: x16, x8, x8 (all physically x16 slots)
    - Option 2*: x16, x16, NC (slot 3 not connected)
    - Option 3: NC, NC, x16 (1U riser; slot 1 and slot 2 not connected)
    - Option 4: x16, NC, NC (slot 2 and slot 3 not connected)
- Riser 2: Slots 4, 5, and 6 - slot size varies (32 lanes)
    - Option 1: x16, x8, x8 (all physically x16 slots)
    - Option 2: x16, x16, NC (slot 6 not connected)
    - Option 3: NC, NC, x16 (1U riser; slot 4 and slot 5 not connected)
- Riser 3: Slots 7 and 8 - both FHHL or FHFL (16 or 32 lanes)
    - Option 1*: x8, x8 (both physically x16 slots)
    - Option 2*: x16, x16
- Slot 9: Internal PCIe 4.0 x8 low-profile slot for internal drive controller (physically a x16 slot)*

* The use of 32 lanes with Riser 1 or the use of Riser 3 or Slot 9 imposes restrictions on the use of the onboard SATA controller or the use of the M.2 Module or both. See the Riser restrictions table below for details.

The riser cards used to provide the above slot combinations are listed in the following table.

Table 51. Riser card selections

Purpose (NC = Not connected)	Part number	Feature code	Description
Riser 1 (slots 1,2,3)			
Option 1 - x16,x8,x8	4XH7A09838	B5VX	ThinkSystem SR655 x16/x8/x8 PCIe Riser1
Option 2 - x16,x16,NC	4XH7A09837	B5VZ	ThinkSystem SR655 x16/x16 PCIe Riser1
Option 3 - NC,NC,x16	4XH7A09835	B5VV	ThinkSystem SR635/SR655 x16 PCIe Riser1
Option 4 - x16,NC,NC	4XH7A09834	B69R	ThinkSystem SR655 x16 PCIe 2U Riser 1
Riser 2 (slots 4,5,6)			
Option 1 - x16,x8,x8	4XF7A72372	B5VU	ThinkSystem SR655 x16/x8/x8 PCIe Riser 2 FH/LP Kit V2
Option 1 - x16,x8,x8	4XH7A09840†	B5VU	ThinkSystem SR655 x16/x8/x8 PCIe Riser2
Option 2 - x16,x16,NC	4XH7A09839	B5VY	ThinkSystem SR655 x16/x16 PCIe Riser2
Option 3 - NC,NC,x16	4XH7A09836	B5W0	ThinkSystem SR635/SR655 x16/x16 PCIe Riser2 (BF)
Riser 3 (slots 7,8)			
Option 1 - x8,x8	4XH7A09841	B5VT	ThinkSystem SR655 x8/x8 PCIe Riser3
Option 2 - x16,x16	4XF7A72373*	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser 3 Kit V2
Option 2 - x16,x16	4XH7A09842*†	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser3
Internal (slot 9)			
Internal slot - x8	4XH7A09843§	B5VW	ThinkSystem SR635/SR655 x8 PCIe Internal Riser

† Not supported with the NVIDIA A100 GPU
* Option part number 4XF7A72373 and 4XH7A09842 includes the GPU power cable
§ Option part number 4XH7A09843 includes a bracket to hold two RAID adapter flash power modules (supercaps)

As described in this section, the use of some risers results in limitations on the use of NVMe drives, the onboard SATA controller, and M.2 drives. This is due to the dual use of some of the PCIe slimline connectors on the system board - use with riser cards and use with these other functions. The following table summarizes the restrictions.

Tip: The drive bay restrictions in the table refer to the front drive bays.

Table 52. Restrictions on NVMe, onboard SATA and M.2 with riser selection

Purpose (NC = Not connected)	Description	NVMe restrictions (front bays)	Onboard SATA restrictions (front bays)	M.2 restrictions
Riser 1 (slots 1,2,3)				
Option 1 x16,x8,x8	ThinkSystem SR655 x16/x8/x8 PCIe Riser1, B5VX	3.5-inch bays: No restriction 2.5-inch bays: 8 NVMe drives max	3.5-inch bays: 8 drives max 2.5-inch bays: No support	No restriction
Option 2 x16,x16,NC	ThinkSystem SR655 x16/x16 PCIe Riser1, B5VZ	3.5-inch bays: No restriction 2.5-inch bays: 8 NVMe drives max	3.5-inch bays: 8 drives max 2.5-inch bays: No support	No restriction
Option 3 NC,NC,x16	ThinkSystem SR635/SR655 x16 PCIe Riser1, B5VV	No restriction	No restriction	No restriction
Option 4 x16,NC,NC	ThinkSystem SR655 x16 PCIe 2U Riser 1, B69R	No restriction	No restriction	No restriction
Riser 2 (slots 4,5,6)				
Option 1 x16,x8,x8	ThinkSystem SR655 x16/x8/x8 PCIe Riser2, B5VU	No restriction	No restriction	No restriction
Option 2 x16,x16,NC	ThinkSystem SR655 x16/x16 PCIe Riser2, B5VY	No restriction	No restriction	No restriction
Option 3 NC,NC,x16	ThinkSystem SR635/SR655 x16/x16 PCIe Riser2 (BF), B5W0	No restriction	No restriction	No restriction
Riser 3 (slots 7,8)				
Option 1 x8,x8	ThinkSystem SR655 x8/x8 PCIe Riser3, B5VT	3.5-inch bays: No NVMe support 2.5-inch bays: No NVMe support	No restriction	No restriction
Option 2 x16,x16	ThinkSystem SR655 x16/x16 PCIe Riser3, B5W1	3.5-inch bays: No NVMe support 2.5-inch bays: No NVMe support	3.5-inch bays: 8 drives max 2.5-inch bays: 8 drives max	No M.2 support
Internal (slot 9)				
Internal slot x8	ThinkSystem SR635/SR655 x8 PCIe Internal Riser, B5VW	3.5-inch bays: No restriction 2.5-inch bays: 8 NVMe drives max	No restriction	No restriction

The choice of riser also determine which rear drive bays are possible, as listed in the following table.

Table 53. Use of rear drive bays with riser cards

Purpose (NC = Not connected)	Description	Riser can be used with:		
		Without rear bays	3.5-inch rear bays	2.5-inch rear bays
Riser 1 (slots 1,2,3)				
Option 1 - x16,x8,x8	ThinkSystem SR655 x16/x8/x8 PCIe Riser1, B5VX	Yes	No	Yes
Option 2 - x16,x16,NC	ThinkSystem SR655 x16/x16 PCIe Riser1, B5VZ	Yes	No	Yes
Option 3 - NC,NC,x16	ThinkSystem SR635/SR655 x16 PCIe Riser1, B5VV	No	Yes	No
Option 4 - x16,NC,NC	ThinkSystem SR655 x16 PCIe 2U Riser 1, B69R	Yes	No	Yes
Riser 2 (slots 4,5,6)				
Option 1 - x16,x8,x8	ThinkSystem SR655 x16/x8/x8 PCIe Riser2, B5VU	Yes	No	Yes
Option 2 - x16,x16,NC	ThinkSystem SR655 x16/x16 PCIe Riser2, B5VY	Yes	No	Yes
Option 3 - NC,NC,x16	ThinkSystem SR635/SR655 x16/x16 PCIe Riser2 (BF), B5W0	No	Yes	No
Riser 3 (slots 7,8)				
Option 1 - x8,x8	ThinkSystem SR655 x8/x8 PCIe Riser3, B5VT	Yes	No	No
Option 2 - x16,x16	ThinkSystem SR655 x16/x16 PCIe Riser3, B5W1	Yes	No	No
Internal (slot 9)				
Internal slot - x8	ThinkSystem SR635/SR655 x8 PCIe Internal Riser, B5VW	Yes	Yes	Yes

Network adapters

The server has a dedicated OCP 3.0 SFF slot with PCIe 4.0 x16 host interface. See Figure 3 for the location of the OCP slot.

The following table lists the supported OCP adapters. One port can optionally be shared with the ASPEED management processor for Wake-on-LAN and NC-SI support. Only 1 OCP card can be installed in the server.

280W processor support: There are some restrictions regarding the use of some OCP adapters with a 280W processor installed due to thermal restrictions. See the Operating environment section for details.

Table 54. Supported OCP adapters

Part number	Feature code	Description	Windows 10/11 support
Gigabit Ethernet			
4XC7A08235	B5T1	ThinkSystem Broadcom 5719 1GbE RJ45 4-port OCP Ethernet Adapter	Supported
4XC7A88428	BW97	ThinkSystem Intel I350 1GbE RJ45 4-Port OCP Ethernet Adapter V2	Supported
4XC7A08277	B93E	ThinkSystem Intel I350 1GbE RJ45 4-port OCP Ethernet Adapter	Supported
10 GbE			
4XC7A08236	B5ST	ThinkSystem Broadcom 57416 10GBASE-T 2-port OCP Ethernet Adapter	Supported
4XC7A08239	B5SS	ThinkSystem Broadcom 57416 10GBASE-T 2-port + 5720 1GbE 2-port OCP Ethernet Adapter	Supported
4XC7A08240	B5T4	ThinkSystem Broadcom 57454 10GBASE-T 4-port OCP Ethernet Adapter	Supported
4XC7A08278	BCD5	ThinkSystem Intel X710-T2L 10GBASE-T 2-port OCP Ethernet Adapter	No
4XC7A80268	BPPY	ThinkSystem Intel X710-T4L 10GBase-T 4-Port OCP Ethernet Adapter	No
4XC7A08310	BB8U	ThinkSystem Marvell QL41132 10GBASE-T 2-port OCP Ethernet Adapter	No
25 GbE			
4XC7A08237	B5SZ	ThinkSystem Broadcom 57414 10/25GbE SFP28 2-Port OCP Ethernet Adapter	Supported
4XC7A08242	B5SV	ThinkSystem Broadcom 57454 10/25GbE SFP28 4-port OCP Ethernet Adapter	Supported
4XC7A80567	BPPW	ThinkSystem Broadcom 57504 10/25GbE SFP28 4-Port OCP Ethernet Adapter	Supported
4XC7A08294	BCD4	ThinkSystem Intel E810-DA2 10/25GbE SFP28 2-Port OCP Ethernet Adapter	No
4XC7A80269	BP8L	ThinkSystem Intel E810-DA4 10/25GbE SFP28 4-Port OCP Ethernet Adapter	No
4XC7A08246	B5T2	ThinkSystem Mellanox ConnectX-4 Lx 10/25GbE SFP28 2-port OCP Ethernet Adapter	No
4XC7A62582	BE4T	ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-port OCP Ethernet Adapter	No
4XC7A08264	B5SW	ThinkSystem Marvell QL41232 10/25GbE SFP28 2-Port OCP Ethernet Adapter	No

Some larger configurations of front drive bays limit whether a 10Gb or faster OCP adapter can be installed or whether performance fans must be installed. Details are listed in the following table. See the Cooling section for performance fan ordering information.

Table 55. Support of OCP adapters based on drive bay configurations

Drive bay configuration	Fan requirements for each supported OCP adapter		
	• **Broadcom 5719 1Gb** • **Intel I350 1Gb** • **Intel X710-T2L** • **Intel E810-DA2**	• **Broadcom 57414 25Gb** • **Mellanox CX-4 25Gb** • **Marvell QL41232 25Gb** • **Marvell QL41132 10Gb**	• **Broadcom 57416 2-port** • **Broadcom 57416+5720** • **Broadcom 57454 25Gb** • **Broadcom 57454 10GBT** • **Mellanox CX-6 Lx 25Gb**
3.5-inch front drive bays			
8x 3.5-inch SAS/SATA	6x Either fan	6x Either fan	6x Either fan
12x 3.5-inch SAS/SATA	6x Either fan	6x Performance fan	No support
8x 3.5-inch SAS/SATA + 4x 3.5-inch AnyBay	6x Either fan	6x Performance fan	No support
2.5-inch front drive bays			
8x 2.5-inch SAS/SATA	6x Either fan	6x Either fan	6x Either fan
16x 2.5-inch SAS/SATA	6x Either fan	6x Either fan	6x Either fan
24x 2.5-inch SAS/SATA	6x Either fan	6x Performance fan	6x Performance fan
8x 2.5-inch NVMe	6x Either fan	6x Either fan	6x Either fan
16x 2.5-inch NVMe	6x Either fan	6x Either fan	6x Either fan
24x 2.5-inch NVMe	6x Either fan	6x Performance fan	6x Performance fan
8x 2.5-inch NVMe + 8x 2.5-inch SAS/SATA	6x Either fan	6x Either fan	6x Either fan
8x 2.5-inch NVMe + 16x 2.5-inch SAS/SATA	6x Either fan	6x Performance fan	6x Performance fan

Installation & removal: Before installing or removing an OCP adapter, power off your server and disconnect power cords first. See Support tip HT509768 for details.

For more information, including the transceivers and cables that each adapter supports, see the list of Lenovo Press Product Guides in the Networking adapters category:
https://lenovopress.com/servers/options/ethernet

The following table lists additional supported network adapters that can be installed in the regular PCIe slots.

Table 56. Supported PCIe Network Adapters

Part number	Feature code	Description	Slots supported	Max qty	Windows 10/11 support
Gigabit Ethernet					
7ZT7A00484	AUZV	ThinkSystem Broadcom 5719 1GbE RJ45 4-Port PCIe Ethernet Adapter	1-8	8	Supported
7ZT7A00482	AUZX	ThinkSystem Broadcom 5720 1GbE RJ45 2-Port PCIe Ethernet Adapter	1-8	8	Supported
7ZT7A00533	AUZZ	ThinkSystem I350-F1 PCIe 1Gb 1-Port SFP Ethernet Adapter	1-8	8	Supported

Part number	Feature code	Description	Slots supported	Max qty	Windows 10/11 support
7ZT7A00534	AUZY	ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter	1-8	8	Supported
7ZT7A00535	AUZW	ThinkSystem I350-T4 PCIe 1Gb 4-Port RJ45 Ethernet Adapter	1-8	8	Supported
10 GbE					
7ZT7A00496	AUKP	ThinkSystem Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter	1-2, 4-8	7	Supported
4XC7A08245	B5SU	ThinkSystem Broadcom 57454 10GBASE-T 4-port PCIe Ethernet Adapter	1,2,4,5,7,8	6*	Supported
00MM860	ATPX	Intel X550-T2 Dual Port 10GBase-T Adapter	1-2, 4-8	7	No
7ZT7A00537	AUKX	ThinkSystem Intel X710-DA2 PCIe 10Gb 2-Port SFP+ Ethernet Adapter	1-2, 4-8	7	Supported
4XC7A80266	BNWL	ThinkSystem Intel X710-T2L 10GBase-T 2-Port PCIe Ethernet Adapter	1,2,4,5,7,8	6	No
4XC7A79699	BMXB	ThinkSystem Intel X710-T4L 10GBase-T 4-Port PCIe Ethernet Adapter	1,2,4,5,7,8	6	No
4XC7A08225	B31G	ThinkSystem QLogic QL41134 PCIe 10Gb 4-Port Base-T Ethernet Adapter	1-2, 4-8	7*	No
25 GbE					
4XC7A84827	BUQK	ThinkSystem AMD X3522 10/25GbE DSFP28 2-Port PCIe Ethernet Adapter (Low Latency)	1-2, 4-8	7	Supported
4XC7A08238	B5T0	ThinkSystem Broadcom 57414 10/25GbE SFP28 2-port PCIe Ethernet Adapter	1-2, 4-8	7	Supported
4XC7A08316	BD49	ThinkSystem Broadcom 57454 10/25GbE SFP28 4-port PCIe Ethernet Adapter V2	1,2,4,5,7,8	6*	Supported
4XC7A08241	B5T3	ThinkSystem Broadcom 57454 10/25GbE SFP28 4-port PCIe Ethernet Adapter	1,2,4,5,7,8	6*	No
4XC7A08295	BCD6	ThinkSystem Intel E810-DA2 10/25GbE SFP28 2-Port PCIe Ethernet Adapter	1-2, 4-8	7	No
4XC7A80566	BNWM	ThinkSystem Broadcom 57504 10/25GbE SFP28 4-port PCIe Ethernet Adapter	4,5,7,8	4	No
4XC7A80267	BP8M	ThinkSystem Intel E810-DA4 10/25GbE SFP28 4-Port PCIe Ethernet Adapter	4,5,7,8	4	No
4XC7A08270	B652	ThinkSystem Marvell QL41232 10/25GbE SFP28 2-Port PCIe Ethernet Adapter	1-2, 4-8	7	No
01GR250	AUAJ	Mellanox ConnectX-4 Lx 10/25GbE SFP28 2-port PCIe Ethernet Adapter	1-2, 4-8	7	No
4XC7A08249	B653	ThinkSystem Mellanox ConnectX-4 Lx 10/25GbE SFP28 2-port PCIe Ethernet Adapter	1-2, 4-8	7	No
4XC7A62580	BE4U	ThinkSystem Mellanox ConnectX-6 Lx 10/25GbE SFP28 2-port PCIe Ethernet Adapter	1,2,4,5,7,8	6*	No
100 GbE					
4XC7A08297	BK1J	ThinkSystem Broadcom 57508 100GbE QSFP56 2-Port PCIe 4 Ethernet Adapter	1,4,5	3*	No
4XC7A08248	B8PP	ThinkSystem Mellanox ConnectX-6 Dx 100GbE QSFP56 2-port PCIe Ethernet Adapter	4,5,7,8	4*	No

Part number	Feature code	Description	Slots supported	Max qty	Windows 10/11 support
InfiniBand					
4C57A14177	B4R9	ThinkSystem Mellanox ConnectX-6 HDR100/100GbE QSFP56 1-port PCIe VPI Adapter	1,2,4,5,7,8	6*	No
4C57A14178	B4RA	ThinkSystem Mellanox ConnectX-6 HDR100/100GbE QSFP56 2-port PCIe VPI Adapter	4,5,7,8	4*	No
4C57A15326	B4RC	ThinkSystem Mellanox ConnectX-6 HDR/200GbE QSFP56 1-port PCIe 4 VPI Adapter	1,2,4,5,7,8	3*	No

* For these adapters, high performance cooling fans must be installed. See the Cooling section for details.

For more information, including the transceivers and cables that each adapter supports, see the list of Lenovo Press Product Guides in the Networking adapters category:
https://lenovopress.com/servers/options/ethernet

Fibre Channel host bus adapters

The following table lists the Fibre Channel HBAs supported by the SR655.

Note that the Emulex LPe35000 adapters are supported either with EPYC 7002 "Rome" processors or with EPYC 7003 "Milan" processors, as indicated in the table.

No Windows 10/11 support: None of the adapters listed in the table are supported with Windows 10 or Windows 11.

Table 57. Fibre Channel HBAs

Part number	Feature code	Description	EPYC 7002	EPYC 7003	Slots supported	Max qty
64 Gb Fibre Channel HBAs						
4XC7A77485	BLC1	ThinkSystem Emulex LPe36002 64Gb 2-port PCIe Fibre Channel Adapter	Yes	Yes	1-2, 4-8	7
32 Gb Fibre Channel HBAs						
4XC7A08250	B5SX	ThinkSystem Emulex LPe35000 32Gb 1-port PCIe Fibre Channel Adapter	Yes	No	1-2, 4-8	7
4XC7A08251	B5SY	ThinkSystem Emulex LPe35002 32Gb 2-port PCIe Fibre Channel Adapter	Yes	No	1-2, 4-8	7
4XC7A76498	BJ3G	ThinkSystem Emulex LPe35000 32Gb 1-port PCIe Fibre Channel Adapter v2	No	Yes	1-2, 4-8	7
4XC7A76525	BJ3H	ThinkSystem Emulex LPe35002 32Gb 2-port PCIe Fibre Channel Adapter V2	No	Yes	1-2, 4-8	7
4XC7A08279	BA1G	ThinkSystem QLogic QLE2770 32Gb 1-Port PCIe Fibre Channel Adapter	Yes	Yes	1-2, 4-8	7
4XC7A08276	BA1F	ThinkSystem QLogic QLE2772 32Gb 2-Port PCIe Fibre Channel Adapter	Yes	Yes	1-2, 4-8	7
7ZT7A00516	AUNS	ThinkSystem QLogic QLE2740 PCIe 32Gb 1-Port SFP+ Fibre Channel Adapter	Yes	Yes	1-2, 4-8	7
7ZT7A00518	AUNU	ThinkSystem QLogic QLE2742 PCIe 32Gb 2-Port SFP+ Fibre Channel Adapter	Yes	Yes	1-2, 4-8	7
16 Gb Fibre Channel HBAs						
01CV840	ATZV	Emulex 16Gb Gen6 FC Dual-port HBA	Yes	Yes	1-2, 4-8	7
01CV830	ATZU	Emulex 16Gb Gen6 FC Single-port HBA	Yes	Yes	1-2, 4-8	7
01CV760	ATZC	QLogic 16Gb Enhanced Gen5 FC Dual-port HBA	Yes	Yes	1-2, 4-8	7
01CV750	ATZB	QLogic 16Gb Enhanced Gen5 FC Single-port HBA	Yes	Yes	1-2, 4-8	7

For more information, see the list of Lenovo Press Product Guides in the Host bus adapters category:
https://lenovopress.com/servers/options/hba

SAS adapters for external storage

The following table lists SAS HBAs and RAID adapters supported by SR655 server for use with external storage.

No Windows 10/11 support: None of the adapters listed in the table are supported with Windows 10 or Windows 11.

Table 58. Adapters for external storage

Part number	Feature code	Description	Slots supported	Maximum supported
SAS HBAs				
7Y37A01090	AUNR	ThinkSystem 430-8e SAS/SATA 12Gb HBA	1,2,4,5,7	5
7Y37A01091	AUNN	ThinkSystem 430-16e SAS/SATA 12Gb HBA	1,2,4,5,7	5
4Y37A78837	BNWK	ThinkSystem 440-8e SAS/SATA PCIe Gen4 12Gb HBA	1,2,4,5,7	5
4Y37A09724	B8P7	ThinkSystem 440-16e SAS/SATA PCIe Gen4 12Gb HBA	1,2,4,5,7	5
External RAID adapters				
7Y37A01087	AUNQ	ThinkSystem RAID 930-8e 4GB Flash PCIe 12Gb Adapter	1,2,4,5,7	4*
4Y37A78836	BNWJ	ThinkSystem RAID 940-8e 4GB Flash PCIe Gen4 12Gb Adapter	1,2,4,5,7	4*

* See configuration rules below

For a comparison of the functions of the supported storage adapters, see the ThinkSystem RAID Adapter and HBA Reference:
https://lenovopress.com/lp1288#sr655-support=SR655&internal-or-external-ports=External

Configuration rules

The following configuration rules apply to the use of the RAID 930-8e and RAID 940-8e adapters and the flash power module (supercaps) that each adapter requires:

- If the 3.5-inch mid-chassis drive cage is configured, then the maximum number of flash power modules (and therefore the maximum number of 930/940-8e adapters) is 2
- If one or more GPUs are installed, then the maximum number of flash power modules and 930/940-8e adapters is 3.
- If any internal RAID adapters with flash power modules are installed, the maximum number of 930/940-8e adapters supported is further reduced by that number.

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

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 more information, see the list of Lenovo Press Product Guides in the Host bus adapters and RAID adapters categories:
https://lenovopress.com/servers/options/hba
https://lenovopress.com/servers/options/raid

Flash storage adapters

All PCIe Flash Storage adapters supported by the server are withdrawn from marketing.

The SR655 supports the PCIe Flash Storage adapters listed in the following table.

No Windows 10/11 support: None of the adapters listed in the table are supported with Windows 10 or Windows 11.

Table 59. Flash Storage Adapters

Part number	Feature code	Description	Slots supported	Maximum supported
Mainstream NVMe PCIe Adapters - Optimized for mixed-intensive application workloads with an endurance of 3-5 DWPD.				
4XB7A38234	BCGJ	ThinkSystem HHHL Kioxia CM5-V 1.6TB Mainstream NVMe PCIe3.0 x4 Flash Adapter	1-8	6
4XB7A38237	BCGK	ThinkSystem HHHL Kioxia CM5-V 3.2TB Mainstream NVMe PCIe3.0 x4 Flash Adapter	1-8	6
4XB7A38240	BCGL	ThinkSystem HHHL Kioxia CM5-V 6.4TB Mainstream NVMe PCIe3.0 x4 Flash Adapter	1-8	6
4XB7A14075	B8JH	ThinkSystem HHHL PM1735 1.6TB Mainstream NVMe PCIe 4.0 x8 Flash Adapter	1-8	6
4XB7A14076	B8HW	ThinkSystem HHHL PM1735 3.2TB Mainstream NVMe PCIe 4.0 x8 Flash Adapter	1-8	6
4XB7A14077	B96M	ThinkSystem HHHL PM1735 6.4TB Mainstream NVMe PCIe4.0 x8 Flash Adapter	1-8	6
4XB7A08520	B32L	ThinkSystem HHHL Toshiba CM5-V 1.6TB Mainstream NVMe PCIe 3.0 x4 Flash Adapter	1-8	6
4XB7A08521	B32M	ThinkSystem HHHL Toshiba CM5-V 3.2TB Mainstream NVMe PCIe 3.0 x4 Flash Adapter	1-8	6

For details about these adapters, see the Lenovo Press product guides in the Flash Adapters category: https://lenovopress.com/servers/options/ssdadapter

Configuration rules

The following configuration requirements must be met when installing flash storage adapters:

- GPU adapters are not supported.
- Processor TDP greater than 155W is not supported
- Ambient temperature 35 °C or lower
- Performance fans are required and will be derived by the configurator for configure-to-order builds.
- When adding Flash adapters as field upgrades, you will be required to replace all standard fans with performance fan modules. The ordering part number is listed in the following table - you will be required to order 6 fans.

Table 60. Performance fan upgrade for Flash adapters

Part number	Feature code	Description	Maximum Supported
4F17A14484	B5W3	ThinkSystem SR655 Performance Fan Module	6

GPU adapters

The SR655 supports the following graphics processing units (GPUs).

Table 61. Supported GPUs

Part number	Feature code	Description	Slots supported	Max Qty	Win 10/11 support
Double-width GPUs					
4X67A81102	BP04	ThinkSystem AMD Instinct MI210 PCIe Gen4 Passive Accelerator	1,7*	2†	No
4X67A76715	BQZP	ThinkSystem NVIDIA A100 80GB PCIe Gen4 Passive GPU w/o CEC	1,7*	2	No
CTO only	BLK1	ThinkSystem NVIDIA A100 80GB PCIe Gen4 Passive GPU w/o CEC	1,7*	2	No
4X67A13135	BEL5	ThinkSystem NVIDIA A100 40GB PCIe Gen4 Passive GPU	1,7*	2	No
4X67A72593	BEL4	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	1,7*	2	No
4X67A72593	BQZQ	ThinkSystem NVIDIA A40 48GB PCIe Gen4 Passive GPU w/o CEC	1,7*	2	No
4X67A76581	BQZR	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU w/o CEC	1,7*	2	No
CTO only	BJHG	ThinkSystem NVIDIA A30 24GB PCIe Gen4 Passive GPU	1,7*	2	No
4X67A71310‡	BFT0	ThinkSystem NVIDIA RTX A6000 48GB PCIe Active GPU	1,7*	2‡	Supported
4X67A76726‡	BNFD	ThinkSystem NVIDIA RTX A4500 20GB PCIe Active GPU	1,7*	2‡	Supported
4X67A76720‡	BMT9	ThinkSystem NVIDIA RTX A2000 12GB PCIe Active GPU	1,7*	2‡	Supported
4X67A13124	BB2E	ThinkSystem NVIDIA Tesla V100S 32GB PCIe Passive GPU	1,7*	2	No
4C57A09498	B1JY	ThinkSystem NVIDIA Tesla V100 16GB PCIe Passive GPU	1,7*	2	No
4X67A12088	B34S	ThinkSystem NVIDIA Tesla V100 32GB PCIe Passive GPU	1,7*	2	No
Single-width GPUs					
CTO only	BP05	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU	1,2,4,5,7,8	6	Supported
4X67A81547	BQZT	ThinkSystem NVIDIA A2 16GB PCIe Gen4 Passive GPU w/o CEC	1,2,4,5,7,8	6	Supported
4X67A14926	B4YB	ThinkSystem NVIDIA T4 16GB PCIe Passive GPU	1,2,4,5,7,8	6**	No
4X67A11584	B31D	ThinkSystem NVIDIA Quadro P620 2GB PCIe Active GPU	1,2,4,5,7,8	6	No

* When installed, the adjacent slot (2, 5, or 8 respectively) will not be usable
** 8x NVIDIA T4 are supported via Special Bid
† The MI210 is supported only with EPYC 7003 "Milan" processors. Not supported with EPYC 7002 "Rome" processors
‡ The RTX A6000, RTX A4500, and RTX A2000 are currently only supported with Windows 10/11 orders.

For information about these GPUs, see the ThinkSystem GPU Summary, available at:
https://lenovopress.com/lp0768-thinksystem-thinkagile-gpu-summary

The following figure shows the slots where double-wide (top image) and single-wide (bottom) are installed.
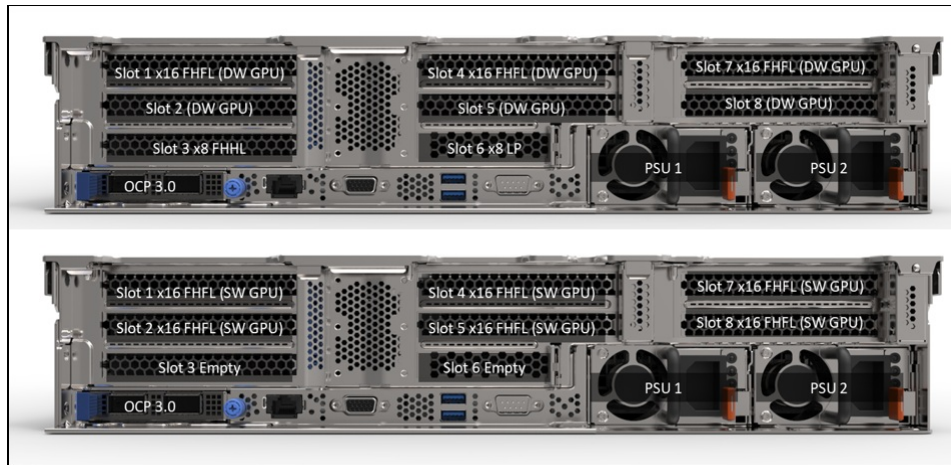
Figure 11. Slots used for GPUs

Configuration rules

The following configuration requirements must be met when installing GPUs:

- Some NVIDIA A Series GPUs are available as two feature codes, one with a CEC chip and one without a CEC chip (ones without the CEC chip have "w/o CEC" in the name). The CEC is a secondary Hardware Root of Trust (RoT) module that provides an additional layer of security, which can be used by customers who have high regulatory requirements or high security standards. NVIDIA uses a multi-layered security model and hence the protection offered by the primary Root of Trust embedded in the GPU is expected to be sufficient for most customers. The CEC defeatured products still offer Secure Boot, Secure Firmware Update, Firmware Rollback Protection, and In-Band Firmware Update Disable. Specifically, without the CEC chip, the GPU does not support Key Revocation or Firmware Attestation. CEC and non-CEC GPUs of the same type of GPU can be mixed in field upgrades.

- All GPUs installed must be identical

- Double-wide GPUs are installed in the top slots of each riser (see I/O expansion for the location of the risers and slots).The adjacent slots are not available for use.

- For double-wide GPUs and the T4 GPU, the following front drive bay restrictions apply:
    - Maximum of 8x 3.5-inch front drive bays supported (12 bays not supported)
    - Maximum of 16x 2.5-inch front drive bays supported (24 bays not supported)

- Rear drive bays and mid-chassis drive bays are not supported.

- Flash storage adapters are not supported.

- 1600W power supplies (or in some configurations, 1100W power supplies) are required.

- Processor TDP and ambient temperature limitations are listed in the following table.

Table 62. Processor and thermal requirements for GPUs

GPUs installed	Front drive bays	Maximum processor TDP	Maximum ambient temperature
6x T4 GPUs	8x 3.5-inch SAS/SATA	200W	35°C
6x T4 GPUs	8x 3.5-inch SAS/SATA	280W (no restriction)	30°C
6x T4 GPUs	8x 2.5-inch SAS/SATA 16x 2.5-inch SAS/SATA	280W (no restriction)	35°C
6x P620 GPUs	8x 3.5-inch SAS/SATA 12x 3.5-inch SAS/SATA 8x 2.5-inch SAS/SATA 16x 2.5-inch SAS/SATA 24x 2.5-inch SAS/SATA	240W	35°C
3x double-wide GPUs	8x 3.5-inch SAS/SATA 8x 2.5-inch SAS/SATA 16x 2.5-inch SAS/SATA	280W (no restriction)	30°C

When GPUs are installed, the necessary riser cards will be derived. The following table shows the riser cards for double-wide GPUs. In such a configuration, slots 1, 4, 7 are x16 used by the GPUs, slots 2, 5, 8 are inaccessible. The remaining slots 3 and 6 are available for x8 adapters.

NVIDIA A100 support: When installing an NVIDIA A100 GPU as a field upgrade to either Slot 4 or Slot 7, Riser 2 Kit V2 (4XF7A72372) or Riser 3 Kit V2 (4XF7A72373) is required. The previous riser kits (4XH7A09840 or 4XH7A09842, now withdrawn) are not supported.

Table 63. Riser cards for double-wide GPUs

Riser choice	Part number	Feature code	Description
Riser 1: x16,NC,NC	4XH7A09834	B69R	ThinkSystem SR655 x16 PCIe 2U Riser 1
Riser 2: x16,x8,x8	4XF7A72372	B5VU	ThinkSystem SR655 x16/x8/x8 PCIe Riser 2 FH/LP Kit V2
	4XH7A09840	B5VU	ThinkSystem SR655 x16/x8/x8 PCIe Riser2*
Riser 3: x16,x16	4XF7A72373	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser 3 Kit V2
	4XH7A09842	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser3*

* Not supported with the NVIDIA A100 GPU

The following table shows the riser cards for 6x single-wide GPUs. With 6 GPUs installed, slots 1, 2, 4, 5, 7, 8 are x16 slots used by the GPUs. The remaining slots 3 and 6 are not connected.

Table 64. Riser cards for 6x single-wide GPUs

Riser choice	Part number	Feature code	Description
Riser 1: x16,x16,NC	4XH7A09837	B5VZ	ThinkSystem SR655 x16/x16 PCIe Riser1
Riser 2: x16,x16,NC	4XH7A09839	B5VY	ThinkSystem SR655 x16/x16 PCIe Riser2
Riser 3: x16,x16	4XF7A72373	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser 3 Kit V2
	4XH7A09842	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser3

Under Special Bid conditions, the server supports 8x NVIDIA T4 GPUs. The following table shows the riser cards for 8x NVIDIA T4 GPUs. With 8 GPUs installed, all rear PCI slots (slots 1-8) are used by the GPUs. Note that four of the GPUs are connected using x8 host interfaces.

Table 65. Riser cards for 8x single-wide GPUs (Special Bid only)

Riser choice	Part number	Feature code	Description
Riser 1: x16,x8,x8	4XH7A09838	B5VX	ThinkSystem SR655 x16/x8/x8 PCIe Riser1
Riser 2: x16,x8,x8	4XF7A72372	BFV6	ThinkSystem SR655 x16/x8/x8 PCIe Riser 2 FH/LP Kit V2
	4XH7A09840	B5VU	ThinkSystem SR655 x16/x8/x8 PCIe Riser2
Riser 3: x16,x16	4XF7A72373	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser 3 Kit V2
	4XH7A09842	B5W1	ThinkSystem SR655 x16/x16 PCIe Riser3

GPU field upgrades

A cooling kit, DIMM fillers and auxiliary power cable kits may be required for GPU field upgrades.

When ordering GPUs as part of a CTO configuration, the necessary cooling features are automatically selected as part of the order. However when ordering the GPUs as field upgrades, you will need to also order the necessary thermal kit. One part number is needed per server.

- 4H47A38664 is for NVIDIA T4 upgrades
- 4H47A38663 is for V100/V100S GPU upgrades

NVIDIA P620 GPUs: A thermal kit is not required when installing NVIDIA Quadro P620 GPUs.

Table 66. Field upgrade kits for GPUs

Part number	Description	Quantity required
4H47A38664	ThinkSystem SR655 Option T4 GPU Upgrade and Thermal Kit • 1U Performance Heatsink (replaces existing heatsink) • 6x Performance fans (replaces existing fans) • GPU air baffle • 3x additional air baffles for NVIDIA T4 GPUs **Tip**: Some components may not be needed in certain configurations. Consult the SR655 Setup Guide for information.	1
4H47A38663	ThinkSystem SR655 Option GPU Upgrade and Thermal Kit • 1U Performance Heatsink (replaces existing heatsink) • 6x Performance fans (replaces existing fans) • GPU air baffle • 3x additional air baffles (only needed for FHHL adapters)	1

When a GPU is added as a field upgrade, all empty DIMM slots must have a dummy DIMM blank installed in each DIMM slot, to ensure the optimal air flow. Ordering information is in the following table.

Table 67. ThinkSystem Dummy DIMM Kit

Part number	Description	Quantity required
4M27A11810	ThinkSystem Dummy DIMM Package Kit (contains 24 dummy memory DIMMs)	1

When ordering double-wide GPUs as part of a CTO configuration, the necessary auxiliary power cables are automatically selected as part of the order. However when ordering the GPUs as field upgrades, you will need to also order the power cable separately. One part number contains 3 cables and only 1 needed per server.

Note: The T4 and P620 GPUs do not require an auxiliary power cable.

Table 68. GPU auxiliary power cable kit

Part number	Description	Quantity required
4X97A59853	ThinkSystem SR655 GPU Cable Kit • 2x 350mm GPU Power Cable (GPU in Riser 1 or 2) (SBB7A14640) • 1x 250mm GPU Power Cable (GPU in Riser 3) (SBB7A10974)	1

Cooling

The SR655 server has six 60 mm single-rotor hot-swap variable-speed fans and either 5 or 6 fans are standard depending on the configuration. The server offers N+1 redundancy, meaning that one fan can fail and the server still operates normally. The server also has one additional fan integrated in each of the two power supplies.

Under all of the following conditions, only 5 fans are required:

- No M.2 Module
- No internal riser slot
- No mid drive bays
- No GPUs
- No flash storage adapter
- No Riser 3

For all other configurations, all 6 fans are required. For fan requirements for OCP adapters, see the table in the Network adapters section

Table 69. Fan ordering information

Part number	Feature code	Description	Maximum supported
4F17A14485	B5W4	ThinkSystem SR655 2U Fan Module	6
4F17A14484	B5W3	ThinkSystem SR655 Performance Fan Module	6

Some configurations, such as the use of high-TDP processors or the addition of mid drive bays, rear drive bays, GPUs, flash storage adapters, M.2 drives, or Ethernet adapters of 100 GbE or higher, or Ethernet adapters of 4-port 10GbE or 10/25GbE or higher, will require the use of higher-RPM performance fans and an upgraded processor heatsink.

For configure-to-order builds, the DCSC configurator will automatically select the required components. For field upgrades, the option part numbers may include the upgraded components when they are needed, or you may need to order the performance fans separately.

See these sections for details:

- Drive bay upgrade kits
- OCP adpaters
- GPU upgrade kits
- Flash storage adapters
- PCIe network adapters

Power supplies

The server supports up to two redundant hot-swap power supplies.

The power supply choices are listed in the following table. Both power supplies used in server must be identical.

> **Tip**: Use Lenovo Capacity Planner to determine exactly what power your server needs: https://datacentersupport.lenovo.com/us/en/solutions/lnvo-lcp

Table 70. Power supply options

Part number	Feature code	Description	Maximum supported	110V AC	220V AC	240V DC China only	-48V DC
AC power input							
7N67A00882	AVWC	ThinkSystem 550W (230V/115V) Platinum Hot-Swap Power Supply	2	Yes	Yes	Yes	No
7N67A00883	B6XT	ThinkSystem 750W (230/115V) Platinum Hot-Swap Power Supply	2	Yes	Yes	Yes	No
4P57A82020	BR1Y	ThinkSystem V1 750W (230Vac) Titanium Hot Swap Power Supply	2	No	Yes	Yes	No
7N67A00884	B6XS	ThinkSystem 750W (230V) Titanium Hot-Swap Power Supply	2	No	Yes	Yes	No
7N67A00885	AVWF	ThinkSystem 1100W (230V/115V) Platinum Hot-Swap Power Supply	2	Yes	Yes	Yes	No
7N67A00886	AVWG	ThinkSystem 1600W (230V) Platinum Hot-Swap Power Supply	2	No	Yes	Yes	No
-48V DC input power							
4P57A15363*	B4Z5*	ThinkSystem 1100W -48V DC Power Supply	2	No	No	No	Yes

* -48V DC power supply is only available via Special Bid

Dual-voltage power supplies are auto-sensing and support both 110V AC (100-127V 50/60 Hz) and 220V AC (200-240V 50/60 Hz) power. For China customers, all AC power supplies support 240V DC.

All supported AC power supplies have a C14 connector. The -48V DC power supply has a Positronic PLB3W3M1000/AA connector.

Power supply options do not include a line cord.

For server configurations, the inclusion of a power cord is model dependent. Configure-to-order models can be configured without power cords if desired.

Power cords

Line cords and rack power cables with C13 connectors can be ordered as listed in the following table.

115V customers: If you plan to use the 1100W power supply with a low-range (100-127V) power source, select a power cable that is rated above 10A. Power cables that are rated at 10A or below are not supported with low-range power.

Table 71. Power cords

Part number	Feature code	Description
Rack cables - C13 to C14		
SL67B08593	BPHZ	0.5m, 10A/100-250V, C13 to C14 Jumper Cord
00Y3043	A4VP	1.0m, 10A/100-250V, C13 to C14 Jumper Cord
4L67A08367	B0N5	1.0m, 13A/100-250V, C13 to C14 Jumper Cord
39Y7937	6201	1.5m, 10A/100-250V, C13 to C14 Jumper Cord
4L67A08368	B0N6	1.5m, 13A/100-250V, C13 to C14 Jumper Cord
4L67A08365	B0N4	2.0m, 10A/100-250V, C13 to C14 Jumper Cord

Part number	Feature code	Description
4L67A08369	6570	2.0m, 13A/100-250V, C13 to C14 Jumper Cord
4L67A08366	6311	2.8m, 10A/100-250V, C13 to C14 Jumper Cord
4L67A08370	6400	2.8m, 13A/100-250V, C13 to C14 Jumper Cord
39Y7932	6263	4.3m, 10A/100-250V, C13 to C14 Jumper Cord
4L67A08371	6583	4.3m, 13A/100-250V, C13 to C14 Rack Power Cable
Rack cables - C13 to C14 (Y-cable)		
00Y3046	A4VQ	1.345m, 2X C13 to C14 Jumper Cord, Rack Power Cable
00Y3047	A4VR	2.054m, 2X C13 to C14 Jumper Cord, Rack Power Cable
Rack cables - C13 to C20		
39Y7938	6204	2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable
Rack cables - C13 to C20 (Y-cable)		
47C2491	A3SW	1.2m, 16A/100-250V, 2 Short C13s to Short C20 Rack Power Cable
47C2492	A3SX	2.5m, 16A/100-250V, 2 Long C13s to Short C20 Rack Power Cable
47C2493	A3SY	2.8m, 16A/100-250V, 2 Short C13s to Long C20 Rack Power Cable
47C2494	A3SZ	4.1m, 16A/100-250V, 2 Long C13s to Long C20 Rack Power Cable
Line cords		
39Y7930	6222	2.8m, 10A/250V, C13 to IRAM 2073 (Argentina) Line Cord
81Y2384	6492	4.3m 10A/220V, C13 to IRAM 2073 (Argentina) Line Cord
39Y7924	6211	2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ) Line Cord
81Y2383	6574	4.3m, 10A/230V, C13 to AS/NZS 3112 (Aus/NZ) Line Cord
69Y1988	6532	2.8m, 10A/250V, C13 to NBR 14136 (Brazil) Line Cord
81Y2387	6404	4.3m, 10A/250V, C13 - 2P+Gnd (Brazil) Line Cord
39Y7928	6210	2.8m, 10A/220V, C13 to GB 2099.1 (China) Line Cord
81Y2378	6580	4.3m, 10A/220V, C13 to GB 2099.1 (China) Line Cord
39Y7918	6213	2.8m, 10A/250V, C13 to DK2-5a (Denmark) Line Cord
81Y2382	6575	4.3m, 10A/230V, C13 to DK2-5a (Denmark) Line Cord
39Y7917	6212	2.8m, 10A/230V, C13 to CEE7-VII (Europe) Line Cord
81Y2376	6572	4.3m, 10A/230V, C13 to CEE7-VII (Europe) Line Cord
39Y7927	6269	2.8m, 10A/250V, C13(2P+Gnd) (India) Line Cord
81Y2386	6567	4.3m, 10A/240V, C13 to IS 6538 (India) Line Cord
39Y7920	6218	2.8m, 10A/250V, C13 to SI 32 (Israel) Line Cord
81Y2381	6579	4.3m, 10A/230V, C13 to SI 32 (Israel) Line Cord
39Y7921	6217	2.8m, 220-240V, C13 to CEI 23-16 (Italy/Chile) Line Cord
81Y2380	6493	4.3m, 10A/230V, C13 to CEI 23-16 (Italy/Chile) Line Cord
46M2593	A1RE	2.8m, 12A/125V, C13 to JIS C-8303 (Japan) Line Cord
4L67A08362	6495	4.3m, 12A/200V, C13 to JIS C-8303 (Japan) Line Cord
39Y7926	6335	4.3m, 12A/100V, C13 to JIS C-8303 (Japan) Line Cord
39Y7922	6214	2.8m, 10A/250V, C13 to SABS 164 (S Africa) Line Cord
81Y2379	6576	4.3m, 10A/230V, C13 to SABS 164 (South Africa) Line Cord
39Y7925	6219	2.8m, 220-240V, C13 to KETI (S Korea) Line Cord
81Y2385	6494	4.3m, 12A/220V, C13 to KSC 8305 (S. Korea) Line Cord
39Y7919	6216	2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss) Line Cord

Part number	Feature code	Description
81Y2390	6578	4.3m, 10A/230V, C13 to SEV 1011-S24507 (Sws) Line Cord
23R7158	6386	2.8m, 10A/125V, C13 to CNS 10917-3 (Taiwan) Line Cord
81Y2375	6317	2.8m, 10A/240V, C13 to CNS 10917-3 (Taiwan) Line Cord
81Y2374	6402	2.8m, 13A/125V, C13 to CNS 60799 (Taiwan) Line Cord
4L67A08363	AX8B	4.3m, 10A 125V, C13 to CNS 10917 (Taiwan) Line Cord
81Y2389	6531	4.3m, 10A/250V, C13 to 76 CNS 10917-3 (Taiwan) Line Cord
81Y2388	6530	4.3m, 13A/125V, C13 to CNS 10917 (Taiwan) Line Cord
39Y7923	6215	2.8m, 10A/250V, C13 to BS 1363/A (UK) Line Cord
81Y2377	6577	4.3m, 10A/230V, C13 to BS 1363/A (UK) Line Cord
90Y3016	6313	2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord
46M2592	A1RF	2.8m, 10A/250V, C13 to NEMA 6-15P Line Cord
00WH545	6401	2.8m, 13A/120V, C13 to NEMA 5-15P (US) Line Cord
4L67A08359	6370	4.3m, 10A/125V, C13 to NEMA 5-15P (US) Line Cord
4L67A08361	6373	4.3m, 10A/250V, C13 to NEMA 6-15P (US) Line Cord
4L67A08360	AX8A	4.3m, 13A/120V, C13 to NEMA 5-15P (US) Line Cord

For the -48V DC Power Supply, the following power cable is supported.

Table 72. -48V DC power cable

Part number	Feature code	Description
CTO only	B93F	ThinkSystem 2.5m,DC Cable

Integrated virtualization

The server supports booting from an operating system or hypervisor installed on an M.2 solid-state drive. See the M.2 drives section for details and the list of available options.

You can download supported VMware vSphere hypervisor images from the following web page and load it on the M.2 drive using the instructions provided:
https://vmware.lenovo.com/content/custom_iso/

Systems management

The server contains an integrated service processor which provides advanced control, monitoring, and alerting functions. The service processor is based on the ASPEED AST2500 baseboard management controller (BMC).

- Local management
- Remote management
- Lenovo XClarity Administrator
- Lenovo XClarity Provisioning Manager Lite
- Lenovo XClarity Essentials
- Lenovo XClarity Energy Manager

Local management

The SR655 offers a front operator panel with key LED status indicators, as shown in the following figure.

Tip: The Network LED only shows network activity of the installed OCP network adapter.
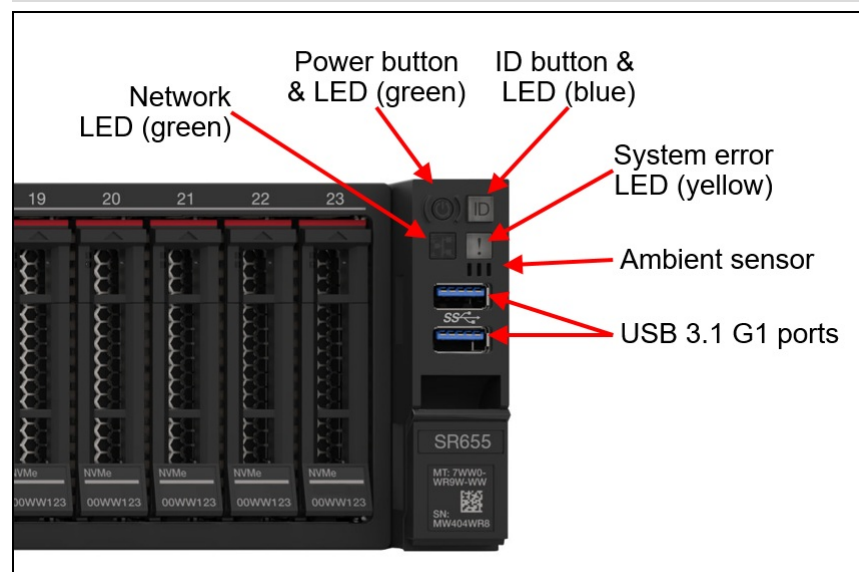
Figure 12. Front operator panel

The server offers light path diagnostics. If an environmental condition exceeds a threshold or if a system component fails, the ASPEED service processor lights LEDs inside the server to help you diagnose the problem and find the failing part. The SR655 has fault LEDs next to the following components:

- Each memory DIMM
- Each drive bay
- Each system fan
- Each power supply

The front of the server also houses an information pull-out tab (also known as the network access tag). See Figure 2 for the location. A label on the tab shows the network information (MAC address and other data) to remotely access the service processor.

Remote management

Remote server management is provided through industry-standard interfaces:

- Intelligent Platform Management Interface (IPMI) Version 2.0
- Simple Network Management Protocol (SNMP) Version 3 (traps and gets)
- Redfish support to the Redfish Schema 2018.1 (DMTF DSP0266 1.5.0 compliant)
- Web browser - HTML 5-based browser interface (Java and ActiveX not required) using a responsive design (content optimized for the device being used - laptop, tablet, phone) with NLS support

Remote connectivity is provided by a dedicated 1Gb Ethernet management port (see the locations of ports at the rear of the server in the Components and connectors section). Remote management can also be performed via the first port of the installed OCP adapter using the shared management capability of the adapter via NC-SI. NC-SI connectivity is 10/100 Mbps Ethernet.

IPMI via the Ethernet port (IPMI over LAN) is supported, however it is disabled by default. For CTO orders you can specify whether you want to the feature enabled or disabled in the factory, using the feature codes listed in the following table.

Table 73. IPMI-over-LAN settings

Part number	Feature code	Description
CTO only	B7XZ	Disable IPMI-over-LAN (default)
CTO only	B7Y0	Enable IPMI-over-LAN

A virtual presence (iKVM remote control and virtual media) capability also comes standard in the server for remote server management.

The remote control functions include the following:

- Remotely viewing video with graphics resolutions up to 1920x1080 at 60 Hz and 32 bits per pixel, regardless of the system state
- Remotely accessing the server using the keyboard and mouse from a remote client
- Full remote administration with seamless access from UEFI POST through to operating system load
- OS independent - no drivers or OS agents required
- Support for up to four remote users simultaneously

The remote media functions include:

- USB 2.0 compliant connectivity
- Up to four simultaneously mounted diskette, HDD, CD, DVD, USB flash drive, or image files
- Optional encryption on connections
- Requires Java Runtime Environment (JRE) 1.4.2 or later
- Can be used as a boot device
- Persistent session across system reset (but not across AC power loss)

Lenovo XClarity Administrator

Lenovo XClarity Administrator is a centralized resource management solution designed to reduce complexity, speed response, and enhance the availability of Lenovo systems and solutions. Lenovo XClarity Administrator provides agent-free hardware management for ThinkSystem servers, in addition to other Lenovo servers. The administration dashboard is based on HTML 5 and allows fast location of resources so tasks can be run quickly.

On the SR655, XClarity Administrator v3.2.0 or later is required for full firmware-update support, managed authentication, and remote control. The baseboard management controller firmware should be v3.56 or later.

Lenovo XClarity Administrator supports the following functions on the SR655:

- Asset management
- Hardware monitoring
- Hardware management
- Configuration management
- Firmware compliance and updates
- Device authentication using an LDAP server
- Remote control
- Warranty status
- Automatic problem notification (call home)

For details of these functions, see the paper *Introduction to Managing ThinkSystem SR635 and SR655 Servers with Lenovo XClarity Administrator*, available from https://lenovopress.com/lp1419

The following functions are not supported:

- Network interfaces using IPv6 link-Local Address (LLA) (only IPv4 addresses and global unicast IPv6 address are supported)
- Server configuration other than BIOS configuration using configuration patterns
- Windows OS device driver updates
- Operating system deployment
- Virtually reseating a server
- Single sign-on to the management controller interface

For more information about Lenovo XClarity Administrator, including ordering part numbers, see the Lenovo XClarity Administrator Product Guide: https://lenovopress.com/tips1200-lenovo-xclarity-administrator

Lenovo XClarity Provisioning Manager Lite

Lenovo XClarity Provisioning Manager Lite (LXPM Lite) v2 is an embedded application for system setup and firmware upgrades. The tool is accessed during system boot by pressing F11 when prompted.

The software tool provides the following functions:

- Easy-to-use, language-selectable graphical interface
- Integrated help system
- Automatic hardware detection
- Ability to install an operating system and device drivers either in an unattended mode or manually
- Ability to clone the settings in one server to other similarly configured Lenovo servers
- Supports RAID setup
- Diagnostics for memory test, hard disk drive test, and RAID log collection.

The LXPM Lite user interface is shown in the following figure.
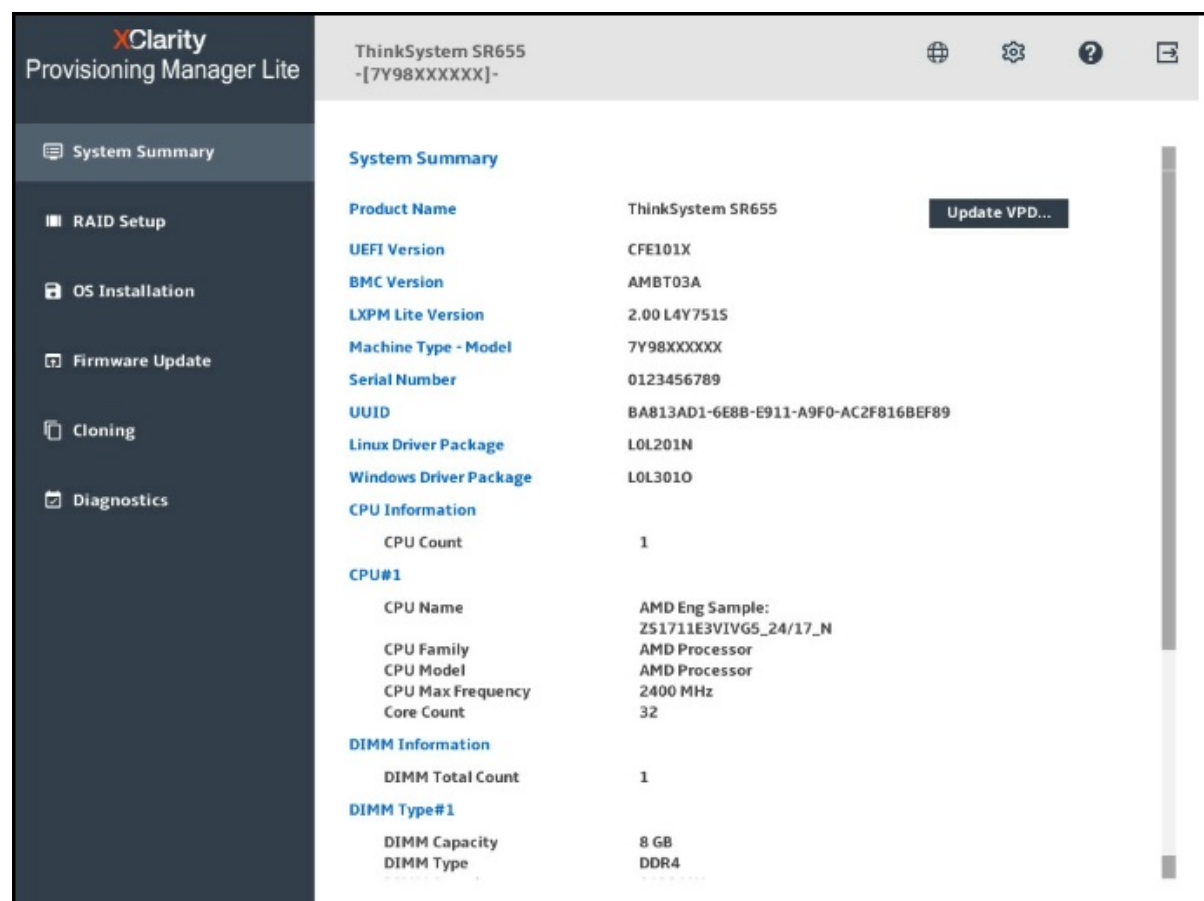
Figure 13. Lenovo XClarity Provisioning Manager Lite user interface (pre-production server)

For more information about LXPM Lite, see the following support page:
https://datacentersupport.lenovo.com/us/en/solutions/HT507133

Lenovo XClarity Essentials

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

- Lenovo Essentials OneCLI

  OneCLI is a collection of server management tools that uses a command line interface program to manage firmware, hardware, and drivers. It provides functions to collect full system health information (including health status), configure system settings, update BMC/UEFI firmware (in-band and out-of-band), and update drivers.

  Note: OneCLI on the SR655 currently does not support firmware update of adapters. For UEFI settings, all OneCLI commands are supported. For BMC settings, OneCLI support is limited to network, ntp, dns, account commands and the following VPD parameters: VPD.Model, VPD.SerialNumber, VPD.AssetTag, VPD.UUID.

- Lenovo Essentials UpdateXpress

  The UpdateXpress tool is a standalone GUI application for firmware and device driver updates that enables you to maintain your server firmware and device drivers up-to-date and help you avoid unnecessary server outages. The tool acquires and deploys individual updates and UpdateXpress System Packs (UXSPs) which are integration-tested bundles.

  Note: UpdateXpress on the SR655 is currently limited to only support BMC and UEFI firmware updates.

- Lenovo Essentials Bootable Media Creator

  The Bootable Media Creator (BOMC) tool is used to create bootable media for offline firmware update.

For more information and downloads, visit the Lenovo XClarity Essentials web page:
http://support.lenovo.com/us/en/documents/LNVO-center

Lenovo XClarity Energy Manager

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

Lenovo XClarity Energy Manager offers the following capabilities:

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

Note: In the SR655, system power capping function is not supported on Lenovo XClarity Energy Manager.

Lenovo XClarity Energy Manager is an optional software component that is licensed on a per managed node basis, that is, each managed server requires a license. To manage systems, a node license pack should be purchased. The following table lists the geo-specific Lenovo XClarity Energy Manager software license options.

Table 74. Lenovo XClarity Energy Manager software options

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

For more information, refer to the Lenovo XClarity Energy Manager web page:
http://datacentersupport.lenovo.com/us/en/solutions/lnvo-lxem

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

For more information, refer to the Capacity Planner web page:
http://datacentersupport.lenovo.com/us/en/solutions/lnvo-lcp

Security

The SR655 server offers the following security features:

- Administrator and power-on password
- Integrated Trusted Platform Module (TPM) supporting TPM 2.0
- Optional Nationz TPM 2.0, available only in China (CTO only)
- Optional chassis intrusion switch (CTO only)
- Optional lockable front security bezel

The server is NIST SP 800-147B compliant.

The optional lockable front security bezel is shown in the following figure and includes a key that enables you to secure the bezel over the drives and system controls thereby reducing the chance of unauthorized or accidental access to the server.

Figure 14. Lockable front security bezel

The dimensions of the security bezel are:

- Width: 437 mm (17.2 in.)
- Height: 87 mm (3.4 in.)
- Width: 23 mm (0.9 in.)

The following table lists the security options for the SR655.

Intrusion switch support: The intrusion switch is mounted on the Riser 2 cage. As a result, the intrusion switch requires a 2U riser in the Riser 2 position (either riser B5VU or B5VY). The intrusion switch is not supported if the server has 3.5-inch rear drive bays configured. The use of the intrusion switch with 2.5-inch rear drive bays requires a special bid (CORE) configuration.

Table 75. Security features

Part number	Feature code	Description
None*	B22N	ThinkSystem Nationz Trusted Platform Module v2.0 (China customers only)
None*	B9V3	ThinkSystem Intrusion Switch Cable
7Z17A02580	AURX	ThinkSystem 2U Security Bezel

* Not available as a field upgrade. The component is CTO or in pre-configured models only.

Rack installation

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

The VGA Upgrade Kit allows you to upgrade your server by adding a VGA video port to the front of the server (if the server does not already come with a front VGA port). When the front VGA is in use, the rear VGA port is automatically disabled.

Table 76. Rack installation options

Option	Feature Code	Description
Optional front VGA port		
4XH7A83033	BMNL	ThinkSystem SR550/SR590/SR650 EIA Latch w/ VGA Upgrade Kit v2
7Z17A02578	B6XX	ThinkSystem 2U EIA Latch w/ VGA Upgrade Kit (adds a VGA port to the front of the server)
4-post rail kits		
	B42B	ThinkSystem Toolless Friction Rail v2
4M17A13564	BK7W	ThinkSystem Toolless Friction Rail v2
7M27A05702	AXCA	ThinkSystem Toolless Slide Rail
7M27A05700	AXCH	ThinkSystem Toolless Slide Rail Kit with 2U CMA
Cable management arm		
7M27A05698	B135	ThinkSystem 2U CMA Upgrade Kit for Toolless Slide Rail

The following table summarizes the rail kit features and specifications.

Table 77. Rail kit features and specifications summary

Feature	ThinkSystem Toolless Slide Rail	ThinkSystem Toolless Friction Rail v2
Part number	7M27A05702 (no CMA) 7M27A05700 (with CMA)	4M17A13564
Rail type	Full-out slide (ball bearing)	Half-out slide (friction)
Toolless installation	Yes	Yes
Cable Management Arm (CMA) support	Yes ● Standard on 7M27A05700 ● For 7M27A05702, use 7M27A05698	No
In-rack server maintenance	Yes	No
1U PDU support	Yes	Yes
0U PDU support	Limited*	Limited**
Rack type	Lenovo and IBM 4-post, IEC standard-compliant	Lenovo and IBM 4-post, IEC standard-compliant
Mounting holes	Square or round	Square or round
Mounting flange thickness	2 mm - 3.3 mm (0.08 - 0.13 in.)	2 mm - 3.3 mm (0.08 - 0.13 in.)
Distance between front and rear mounting flanges	610 mm - 864 mm (24 - 34 in.)	610 mm - 864 mm (24 - 34 in.)
Rail length***	730 mm (28.74 in.)	751 mm (29.6 in.)

* For 0U PDU support, the rack must be at least 1100 mm (43.31 in.) deep without a CMA, or at least 1200 mm (47.24 in.) deep if a CMA is used.
** For 0U PDU support with the friction rail kit, the rack must be at least 1000 mm (39.37 in.) deep.
*** Measured when mounted on the rack, from the front surface of the front mounting flange to the rear most point of the rail.

Rack shipment: The following restrictions apply when shipping the SR655 in a rack:

- No 2.5-inch rear drive bays
- No mid drive bays
- Maximum of 1x double-width GPU installed

Operating system support

Topics in this section:

- EPYC 7003 support
- EPYC 7002 support
- VMware ESXi preload
- Windows 10 and Windows 11

EPYC 7003 support

The SR655 with EPYC 7003 processors supports the following operating systems:

- Microsoft Windows 10 (x64)
- Microsoft Windows 11
- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022
- Red Hat Enterprise Linux 8.3

- Red Hat Enterprise Linux 8.4
- Red Hat Enterprise Linux 8.5
- Red Hat Enterprise Linux 8.6
- Red Hat Enterprise Linux 8.7
- Red Hat Enterprise Linux 8.8
- Red Hat Enterprise Linux 8.9
- Red Hat Enterprise Linux 8.10
- Red Hat Enterprise Linux 9.0
- Red Hat Enterprise Linux 9.1
- Red Hat Enterprise Linux 9.2
- Red Hat Enterprise Linux 9.3
- Red Hat Enterprise Linux 9.4
- Red Hat Enterprise Linux 9.5
- SUSE Linux Enterprise Server 12 SP5
- SUSE Linux Enterprise Server 12 Xen SP5
- SUSE Linux Enterprise Server 15 SP2
- SUSE Linux Enterprise Server 15 SP3
- SUSE Linux Enterprise Server 15 SP4
- SUSE Linux Enterprise Server 15 SP5
- SUSE Linux Enterprise Server 15 SP6
- SUSE Linux Enterprise Server 15 Xen SP2
- SUSE Linux Enterprise Server 15 Xen SP3
- SUSE Linux Enterprise Server 15 Xen SP4
- SUSE Linux Enterprise Server 15 Xen SP5
- Ubuntu 22.04 LTS 64-bit
- Ubuntu 24.04 LTS 64-bit
- VMware ESXi 6.7 U3
- VMware ESXi 7.0 U2
- VMware ESXi 7.0 U3
- VMware ESXi 8.0
- VMware ESXi 8.0 U1
- VMware ESXi 8.0 U2
- VMware ESXi 8.0 U3

EPYC 7002 support

The SR655 with EPYC 7002 processors supports the following operating systems:

- Microsoft Windows 10 (x64)
- Microsoft Windows 11
- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022
- Red Hat Enterprise Linux 7.6
- Red Hat Enterprise Linux 7.7
- Red Hat Enterprise Linux 7.8
- Red Hat Enterprise Linux 7.9
- Red Hat Enterprise Linux 8.0
- Red Hat Enterprise Linux 8.1
- Red Hat Enterprise Linux 8.2
- Red Hat Enterprise Linux 8.3
- Red Hat Enterprise Linux 8.4
- Red Hat Enterprise Linux 8.5
- Red Hat Enterprise Linux 8.6
- Red Hat Enterprise Linux 8.7
- Red Hat Enterprise Linux 8.8
- Red Hat Enterprise Linux 8.9
- Red Hat Enterprise Linux 8.10

- Red Hat Enterprise Linux 9.0
- Red Hat Enterprise Linux 9.1
- Red Hat Enterprise Linux 9.2
- Red Hat Enterprise Linux 9.3
- Red Hat Enterprise Linux 9.4
- Red Hat Enterprise Linux 9.5
- SUSE Linux Enterprise Server 12 SP4
- SUSE Linux Enterprise Server 12 SP5
- SUSE Linux Enterprise Server 12 Xen SP4
- SUSE Linux Enterprise Server 12 Xen SP5
- SUSE Linux Enterprise Server 15 SP1
- SUSE Linux Enterprise Server 15 SP2
- SUSE Linux Enterprise Server 15 SP3
- SUSE Linux Enterprise Server 15 SP4
- SUSE Linux Enterprise Server 15 SP5
- SUSE Linux Enterprise Server 15 SP6
- SUSE Linux Enterprise Server 15 Xen SP1
- SUSE Linux Enterprise Server 15 Xen SP2
- SUSE Linux Enterprise Server 15 Xen SP3
- SUSE Linux Enterprise Server 15 Xen SP4
- SUSE Linux Enterprise Server 15 Xen SP5
- Ubuntu 22.04 LTS 64-bit
- Ubuntu 24.04 LTS 64-bit
- VMware ESXi 6.5 U3
- VMware ESXi 6.7 U3
- VMware ESXi 7.0
- VMware ESXi 7.0 U1
- VMware ESXi 7.0 U2
- VMware ESXi 7.0 U3
- VMware ESXi 8.0
- VMware ESXi 8.0 U1
- VMware ESXi 8.0 U2
- VMware ESXi 8.0 U3

For a complete list of supported, certified and tested operating systems, plus additional details and links to relevant web sites, see the Operating System Interoperability Guide:

- SR655 with EPYC 7003: https://lenovopress.com/osig#servers=sr655-7y00-7z01-epyc-7003
- SR655 with EPYC 7002: https://lenovopress.com/osig#servers=sr655-7y00-7z01-epyc-7002

VMware ESXi preload

For configure-to-order configurations, the SR655 can be preloaded with VMware ESXi. Ordering information is listed in the following table.

Table 78. VMware ESXi preload

Part number	Feature code	Description
CTO only	B6U0	VMware ESXi 6.5 U3 (factory installed)
CTO only	B88T	VMware ESXi 6.7 U3 (factory installed)
CTO only	BHSR	VMware ESXi 7.0 U2 (Factory Installed)
CTO only	BMT5	VMware ESXi 8.0 (Factory Installed)
CTO only	BQ8S	VMware ESXi 8.0 U1 (Factory Installed)

Configuration rule:

- An ESXi preload cannot be selected if the configuration includes an NVIDIA GPU (ESXi preload cannot include the NVIDIA driver)

You can download supported VMware vSphere hypervisor images from the following web page and install it using the instructions provided:
https://vmware.lenovo.com/content/custom_iso/

Windows 10 and Windows 11

The SR655 can now run Windows 10 and Windows 11, however only a subset of adapters and drives can be installed. For ease of configuration, additional Base CTO models 7Z01CTO2WW and 7Y00CTO2WW have been created to assist building a configuration that can be used with the client operating systems. See the Models section for details.

The XClarity management toolset is supported with Windows 10 and Windows 11.

Windows client license: A Windows client license for the system cannot be ordered from Lenovo nor can the OS be preloaded on the system in the factory. For the Windows license and for preloads, please contact your Lenovo business partner. A Windows Pro license is required as a qualifying base OS license in order to use a client Volume License offering.

See the part number tables in the following sections to see which adapters are supported with Windows 10 and Windows 11:

- Controllers for internal storage
- Internal drive options
- M.2 adapters
- Network adapters
- GPU adapters

GPU recommended: Lenovo recommends that if you plan to install Windows 10 or 11 on this server to run graphics-intensive applications, then you should selected a dedicated graphics adapter (GPU).

The following components are *not* supported:

- SAS HDDs and SSDs
- Fibre Channel adapters
- InfiniBand adapters
- External storage adapters
- Flash storage adapters

Physical and electrical specifications

The SR655 has the following overall physical dimensions, excluding components that extend outside the standard chassis, such as EIA flanges, front security bezel (if any), and power supply handles:

- Width: 445 mm (17.5 inches)
- Height: 87 mm (3.4 inches)
- Depth: 764 mm (30.1 inches)

The following table lists the detailed dimensions. See the figure below for the definition of each dimension.

Table 79. Detailed dimensions

Dimension	Description
482 mm	X_a = Width, to the outsides of the front EIA flanges
435 mm	X_b = Width, to the rack rail mating surfaces
445 mm	X_c = Width, to the outer most chassis body feature
87 mm	Ya = Height, from the bottom of chassis to the top of the chassis
698 mm	Za = Depth, from the rack flange mating surface to the rearmost I/O port surface
730 mm	Zb = Depth, from the rack flange mating surface to the rearmost feature of the chassis body
730 mm	Zc = Depth, from the rack flange mating surface to the rearmost feature such as power supply handle
34 mm	Zd = Depth, from the forwardmost feature on front of EIA flange to the rack flange mating surface
47 mm	Ze = Depth, from the front of security bezel (if applicable) or forwardmost feature to the rack flange mating surface
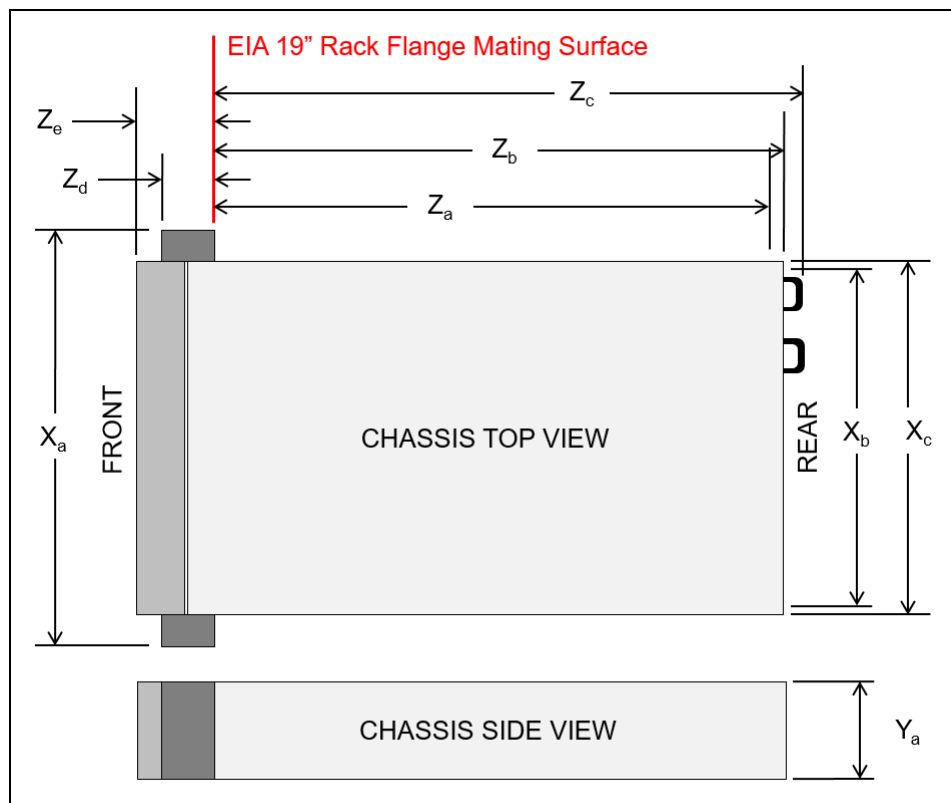
Figure 15. Server dimensions

The shipping (cardboard packaging) dimensions of the SR655 are as follows:

- Width: 592 mm (23.3 inches)
- Height: 282 mm (11.1 inches)
- Depth: 992 mm (39.1 inches)

Weight:

- Maximum weight: 35.4 kg (78.0 lb)

Electrical specifications for AC power supplies:

- Electrical - Input voltage
  - 100 - 127 (nominal) V AC, 50 Hz or 60 Hz
  - 200 - 240 (nominal) V AC, 50 Hz or 60 Hz
  - 180 - 300 V DC (China only)
- Inlet current:
  - 100-127 V:
    - 550W power supply: 6.2 A
    - 750W power supply: 8.4 A
    - 1100W power supply: 12 A
  - 200-240 V:
    - 550W power supply: 3.0 A
    - 750W power supply: 4.1 A
    - 1100W power supply: 6 A
    - 1600W power supply: 8.7 A

Electrical specifications for DC input power supply:

- Input voltage: -48 to -60 Vdc
- Inlet current (1100W power supply): 26 A

Operating environment

The ThinkSystem SR655 server complies with ASHRAE Class A2 specifications, and depending on the hardware configuration, also complies with ASHRAE Class A3 and Class A4 specifications. System performance may be impacted when operating temperature is outside ASHRAE A2 specification.

The restrictions to ASHRAE A2 support are as follows:

- With 24x NVMe front drive bays + 8x mid-chassis drive bays, ambient temperature cannot exceed 30°C
- With 8x 3.5-inch front drives + 6x single-wide GPUs, ambient temperature cannot exceed 30°C
- With 8x 3.5-inch or 8x 2.5-inch front drives + 3x double-wide GPUs, ambient temperature cannot exceed 30°C

See the GPU adapters section for details.

To comply with ASHRAE A3 and A4 specifications, the server models must meet the following hardware configuration requirements:

- Processor TDP greater than 155W not supported; the only exception is a configuration with 24x 2.5-inch front drive bays, where the processor TDP cannot exceed 120W.
- No support for 12x 3.5-inch front drive bays (the 8x 3.5-inch bay configuration is supported)
- No support for NVMe drives
- No support for rear drive bays or mid drive bays
- No support for GPUs
- No support for M.2
- No support for PCIe flash storage adapters
- No support for OCP networking adapters of 10Gb or faster
- No support for Ethernet adapters of 10GbE or faster
- No support for DIMMs of 128GB or larger capacity

The following additional restrictions apply if the server has a 280W processor installed:

- With either of the following drive bay configurations, slots 1, 2, 3 and the OCP slot cannot be used, and ambient temperature cannot exceed 35°C:
    - 12x 3.5-inch SAS/SATA front drives (no mid drives, no rear drives)
    - 8x 3.5-inch SAS/SATA + 4x 3.5-inch AnyBay front drives (no mid drives, no rear drives)
- With either of the following drive bay configurations, slot 3 and the OCP slot cannot be used, and ambient temperature cannot exceed 30°C:
    - 12x 3.5-inch SAS/SATA front drives + 4x 3.5-inch rear drives (no mid drives)
    - 8x 3.5-inch SAS/SATA + 4x 3.5-inch AnyBay front drives + 4x 3.5-inch rear drives (no mid drives)
- With any of the following drive bay configurations, the following OCP adapters cannot be used and ambient temperature cannot exceed 35°C:
    - 24x 2.5-inch SAS/SATA (no mid drives, no rear drives)
    - 24x 2.5-inch NVMe (no mid drives, no rear drives)
    - 8x 2.5-inch NVMe + 16x 2.5-inch SAS/SATA (no mid drives, no rear drives)
    - ThinkSystem Broadcom 57454 10GBASE-T 4-port OCP Ethernet Adapter, 4XC7A08240
    - ThinkSystem Broadcom 57416 10GBASE-T 2-port + 5720 1GbE 2-port OCP Ethernet Adapter, 4XC7A08239
    - ThinkSystem Broadcom 57416 10GBASE-T 2-port OCP Ethernet Adapter, 4XC7A08236
    - ThinkSystem Broadcom 57454 10/25GbE SFP28 4-port OCP Ethernet Adapter, 4XC7A08242
- The following drive bay configurations are not supported:
    - 12x 3.5-inch SAS/SATA front drives + any mid drives
    - 8x 3.5-inch SAS/SATA + 4x 3.5-inch AnyBay front drives + any mid drives

The following additional restriction apply if the server has either the EPYC 7313 or 7313P processor installed:

- The ambient temperature cannot exceed 30°C if the following drive bays are configured:
    - 12x 3.5-inch SAS/SATA front drives + 4x 3.5-inch SAS/SATA mid drives
    - 8x 3.5-inch AnyBay front drives + 4x 3.5-inch AnyBay mid drives

Temperature and humidity

The server is supported in the following environment:

- Air temperature:
    - Operating:
        - ASHRAE Class A2: 10°C to 35°C (50°F to 95°F); the maximum ambient temperature decreases by 1°C for every 300 m (984 ft) increase in altitude above 900 m (2,953 ft).
        - ASHRAE Class A3: 5°C to 40°C (41°F to 104°F); the maximum ambient temperature decreases by 1°C for every 175 m (574 ft) increase in altitude above 900 m (2,953 ft).
        - ASHRAE Class A4: 5°C to 45°C (41°F to 113°F); the maximum ambient temperature decreases by 1°C for every 125 m (410 ft) increase in altitude above 900 m (2,953 ft).
    - Server off: 5°C to 45°C (41°F to 113°F)
    - Shipment/storage: -40°C to 60°C (-40°F to 140°F)
- Maximum altitude: 3,050 m (10,000 ft)
- Relative Humidity (non-condensing):
    - Operating
        - ASHRAE Class A2: 8% to 80%; maximum dew point: 21°C (70°F)
        - ASHRAE Class A3: 8% to 85%; maximum dew point: 24°C (75°F)
        - ASHRAE Class A4: 8% to 90%; maximum dew point: 24°C (75°F)
    - Shipment/storage: 8% to 90%

Heat output

The server generates the following heat/thermal output:

- Minimum configuration: 421 BTU/hr, 123 W
- Maximum configuration: 5606 BTU/hr, 1643 W

Acoustical noise emissions

The server has the following acoustic noise emissions declaration:

- Sound power level (L_{WAd}):
    - Idling: 6.2 Bel (typical), 7.0 Bel (Storage rich), 7.0 Bel (GPU rich)
    - Operating: 6.2 Bel (typical), 7.2 Bel (storage rich), 8.5 Bel (GPU rich)
- Sound pressure level (L_{pAm}):
    - Idling: 46 dBA (Typical), 54 dBA (Storage rich), 54 dBA (GPU rich)
    - Operating: 47 dBA (Typical), 56 dBA (Storage rich), 69 dBA (GPU rich)

Notes:

- The sound levels were measured in controlled acoustical environments according to procedures specified by ISO7779 and are reported in accordance with ISO 9296.
- The declared acoustic sound levels are based on the following configurations, which may change depending on configuration/conditions:
    - Typical: 1x 155W CPU, 16x 32GB RDIMM, 16x 2.5" HDD, RAID 930-16i, 10GBASE-T 2-port PCIe Ethernet Adapter, 2x 750W PSU
    - Storage rich: 1x 155W CPU, 16x 64GB RDIMM, 20x3.5" HDD, RAID 930-24i, 10GBASE-T 4-port PCIe Ethernet Adapter, 2x 750W PSU
    - GPU rich: 1x 155W CPU, 16x 64GB RDIMM, 8x 2.5" HDD, RAID 930-8i, 10GBASE-T 4-port PCIe Ethernet Adapter, 3x V100 GPU, 2x 1600W PSU

Shock and vibration

The server has the following vibration and shock limits:

- Vibration:
  - Operating: 0.21 G rms at 5 Hz to 500 Hz for 15 minutes across 3 axes
  - Non-operating: 1.04 G rms at 2 Hz to 200 Hz for 15 minutes across 6 surfaces

- Shock:
  - Operating: 15 G for 3 milliseconds in each direction (positive and negative X, Y, and Z axes)
  - Non-operating:
    - 23 kg - 31 kg: 35 G for 152 in./sec velocity change across 6 surfaces (3x GPU config, 2.5" config)
    - 32 kg - 68 kg: 35 G for 136 in./sec velocity change across 6 surfaces (20x 3.5" HDD config)

Weight information for SR655 measuring in shock & vibration test:

- 3.5"x 12 HS + 3x DW GPU: 31.74 (kg)

- 3.5"x 12 HS + Mid 3.5"x4 HS + Rear 3.5"x4 HS: 35.74 (kg)

- 2.5"x 24 HS + Mid 2.5"x8 HS + Rear 2.5"x4 HS: 29.49 (kg)

Particulate contamination

Airborne particulates (including metal flakes or particles) and reactive gases acting alone or in combination with other environmental factors such as humidity or temperature might damage the system that might cause the system to malfunction or stop working altogether.

The following specifications indicate the limits of particulates that the system can tolerate:

- Reactive gases:
  - The copper reactivity level shall be less than 200 Angstroms per month (Å/month)
  - The silver reactivity level shall be less than 200 Å/month

- Airborne particulates:
  - The room air should be continuously filtered with MERV 8 filters.
  - Air entering a data center should be filtered with MERV 11 or preferably MERV 13 filters.
  - The deliquescent relative humidity of the particulate contamination should be more than 60% RH
  - Environment must be free of zinc whiskers

For additional information, see the Specifications section of the documentation for the server, available from the Lenovo Documents site, https://pubs.lenovo.com/

Warranty upgrades and post-warranty support

The SR655 has a 1-year or 3-year warranty based on the machine type of the system:

- 7Y00 - 1 year warranty
- 7Z01 - 3 year warranty

Our global network of regional support centers offers consistent, local-language support enabling you to vary response times and level of service to match the criticality of your support needs:

- **Standard Next Business Day** – Best choice for non-essential systems requiring simple maintenance.

- **Premier Next Business Day** – Best choice for essential systems requiring technical expertise from senior-level Lenovo engineers.

- **Premier 24x7 4-Hour Response** – Best choice for systems where maximum uptime is critical.

- **Premier Enhanced Storage Support 24x7 4-Hour Response** – Best choice for storage systems where maximum uptime is critical.

For more information, consult the brochure Lenovo Operational Support Services for Data Centers Services .

Services

Lenovo Data Center Services empower you at every stage of your IT lifecycle. From expert advisory and strategic planning to seamless deployment and ongoing support, we ensure your infrastructure is built for success. Our comprehensive services accelerate time to value, minimize downtime, and free your IT staff to focus on driving innovation and business growth.

Note: Some service options may not be available in all markets or regions. For more information, go to https://lenovolocator.com/. For information about Lenovo service upgrade offerings that are available in your region, contact your local Lenovo sales representative or business partner.

In this section:

- Lenovo Advisory Services
- Lenovo Plan & Design Services
- Lenovo Deployment, Migration, and Configuration Services
- Lenovo Support Services
- Lenovo Managed Services
- Lenovo Sustainability Services

Lenovo Advisory Services

Lenovo Advisory Services simplify the planning process, enabling customers to build future-proofed strategies in as little as six weeks. Consultants provide guidance on projects including VM migration, storage, backup and recovery, and cost management to accelerate time to value, improve cost efficiency, and build a flexibly scalable foundation.

- **Assessment Services**

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

- **Design Services**

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

Lenovo Plan & Design Services

Unlock faster time to market with our tailored, strategic design workshops to align solution approaches with your business goals and technical requirements. Leverage our deep solution expertise and end-to-end delivery partnership to meet your goals efficiently and effectively.

Lenovo Deployment, Migration, and Configuration Services

Optimize your IT operations by shifting labor-intensive functions to Lenovo's skilled technicians for seamless on-site or remote deployment, configuration, and migration. Enjoy peace of mind, faster time to value, and comprehensive knowledge sharing with your IT staff, backed by our best-practice methodology.

- **Deployment Services for Storage and ThinkAgile**

  A comprehensive range of remote and onsite options tailored specifically for your business needs to ensure your storage and ThinkAgile hardware are fully operational from the start.

- **Hardware Installation Services**

  A full-range, comprehensive setup for your hardware, including unpacking, inspecting, and positioning components to ensure your equipment is operational and error-free for the most seamless and efficient installation experience, so you can quickly benefit from your investments.

- **DM/DG File Migration Services**

  Take the burden of file migration from your IT's shoulders. Our experts will align your requirements and business objectives to the migration plans while coordinating with your team to plan and safely execute the data migration to your storage platforms.

- **DM/DG/DE Health Check Services**

  Our experts perform proactive checks of your Firmware and system health to ensure your machines are operating at peak and optimal efficiency to maximize up-time, avoid system failures, ensure the security of IT solutions and simplify maintenance.

- **Factory Integrated Services**

  A suite of value-added offerings provided during the manufacturing phase of a server or storage system that reduces time to value. These services aim at improving your hardware deployment experience and enhance the quality of a standard configuration before it arrives at your facility.

Lenovo Support Services

In addition to response time options for hardware parts, repairs, and labor, Lenovo offers a wide array of additional support services to ensure your business is positioned for success and longevity. Our goal is to reduce your capital outlays, mitigate your IT risks, and accelerate your time to productivity.

- **Premier Support for Data Centers**

  Your direct line to the solution that promises the best, most comprehensive level of support to help you fully unlock the potential of your data center.

- **Premier Enhanced Storage Support (PESS)**

  Gain all the benefits of Premier Support for Data Centers, adding dedicated storage specialists and resources to elevate your storage support experience to the next level.

- **Committed Service Repair (CSR)**

  Our commitment to ensuring the fastest, most seamless resolution times for mission-critical systems that require immediate attention to ensure minimal downtime and risk for your business. This service is only available for machines under the Premier 4-Hour Response SLA.

- **Multivendor Support Services (MVS)**

  Your single point of accountability for resolution support across vast range of leading Server, Storage, and Networking OEMs, allowing you to manage all your supported infrastructure devices seamlessly from a single source.

- **Keep Your Drive (KYD)**

  Protect sensitive data and maintain compliance with corporate retention and disposal policies to ensure your data is always under your control, regardless of the number of drives that are installed in your Lenovo server.

- **Technical Account Manager (TAM)**

  Your single point of contact to expedite service requests, provide status updates, and furnish reports to track incidents over time, ensuring smooth operations and optimized performance as your business grows.

- **Enterprise Software Support (ESS)**

  Gain comprehensive, single-source, and global support for a wide range of server operating systems and Microsoft server applications.

For more information, consult the brochure Lenovo Operational Support Services for Data Centers.

Lenovo Managed Services

Achieve peak efficiency, high security, and minimal disruption with Lenovo's always-on Managed Services. Our real-time monitoring, 24x7 incident response, and problem resolution ensure your infrastructure operates seamlessly. With quarterly health checks for ongoing optimization and innovation, Lenovo's remote active monitoring boosts end-user experience and productivity by keeping your data center's hardware performing at its best.

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

Quarterly reviews check error logs, verify firmware & OS device driver levels, and software as needed. We'll also maintain records of latest patches, critical updates, and firmware levels, to ensure you systems are providing business value through optimized performance.

Lenovo Sustainability Services

- **Asset Recovery Services**

  Lenovo Asset Recovery Services (ARS) provides a secure, seamless solution for managing end-of-life IT assets, ensuring data is safely sanitized while contributing to a more circular IT lifecycle. By maximizing the reuse or responsible recycling of devices, ARS helps businesses meet sustainability goals while recovering potential value from their retired equipment. For more information, see the Asset Recovery Services offering page.

- **CO2 Offset Services**

  Lenovo's CO2 Offset Services offer a simple and transparent way for businesses to take tangible action on their IT footprint. By integrating CO2 offsets directly into device purchases, customers can easily support verified climate projects and track their contributions, making meaningful progress toward their sustainability goals without added complexity.

- **Lenovo Certified Refurbished**

  Lenovo Certified Refurbished offers a cost-effective way to support IT circularity without compromising on quality and performance. Each device undergoes rigorous testing and certification, ensuring reliable performance and extending its lifecycle. With Lenovo's trusted certification, you gain peace of mind while making a more sustainable IT choice.

Lenovo TruScale

Lenovo TruScale XaaS is your set of flexible IT services that makes everything easier. Streamline IT procurement, simplify infrastructure and device management, and pay only for what you use – so your business is free to grow and go anywhere.

Lenovo TruScale is the unified solution that gives you simplified access to:

- The industry's broadest portfolio – from pocket to cloud – all delivered as a service
- A single-contract framework for full visibility and accountability
- The global scale to rapidly and securely build teams from anywhere
- Flexible fixed and metered pay-as-you-go models with minimal upfront cost
- The growth-driving combination of hardware, software, infrastructure, and solutions – all from one single provider with one point of accountability.

For information about Lenovo TruScale offerings that are available in your region, contact your local Lenovo sales representative or business partner.

Regulatory compliance

The SR655 server conforms to the following standards:

- Energy Star 3.0
- FCC: Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 6, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1
- NOM-019
- Argentina IEC60950-1
- Japan VCCI, Class A
- Australia/New Zealand AS/NZS CISPR 32, Class A; AS/NZS 60950.1
- IEC 60950-1 (CB Certificate and CB Test Report)
- China CCC (GB4943.1), GB9254 Class A, GB17625.1
- Taiwan BSMI CNS13438, Class A; CNS14336-1
- Korea KN32, Class A; KN35
- Russia, Belorussia and Kazakhstan, EAC: TP TC 004/2011(for Safety); TP TC 020/2011(for EMC)
- CE Mark (EN55032 Class A, EN60950-1, EN55024, EN61000-3-2, and EN61000-3-3)
- CISPR 32, Class A
- TUV-GS (EN60950-1 /IEC60950-1, EK1-ITB2000)
- India BIS certification

External drive enclosures

The server supports attachment to external drive enclosures using a RAID controller with external ports or a SAS host bus adapter. Adapters supported by the server are listed in the SAS adapters for external storage section.

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

Table 80. External drive enclosures

Model	Description
4587HC1	Lenovo Storage D1212 Disk Expansion Enclosure (2U enclosure with 12x LFF drive bays)
4587HC2	Lenovo Storage D1224 Disk Expansion Enclosure (2U enclosure with 24x SFF drive bays)
6413HC1	Lenovo Storage D3284 High Density Expansion Enclosure (5U enclosure with 84x LFF drive bays)
7DAHCTO1WW	Lenovo ThinkSystem D4390 Direct Attached Storage (4U enclosure with 90x LFF drive bays)

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

- Lenovo Storage D1212 and D1224
  http://lenovopress.lenovo.com/lp0512

- Lenovo Storage D3284
  http://lenovopress.lenovo.com/lp0513

- Lenovo ThinkSystem D4390
  https://lenovopress.lenovo.com/lp1681

External storage systems

Lenovo offers the ThinkSystem DE Series, ThinkSystem DG Series and ThinkSystem DM Series external storage systems for high-performance storage. See the DE Series, DG Series and DM Series product guides for specific controller models, expansion enclosures and configuration options:

- ThinkSystem DE Series Storage
  https://lenovopress.com/storage/thinksystem/de-series#rt=product-guide

- ThinkSystem DM Series Storage
  https://lenovopress.com/storage/thinksystem/dm-series#rt=product-guide

- ThinkSystem DG Series Storage
  https://lenovopress.com/storage/thinksystem/dg-series#rt=product-guide

External backup units

The server supports both USB-attached RDX backup units and SAS-attached tape drives.

The following table lists the available external SAS tape backup options.

Tip: Verify the end-to-end support of an IBM tape backup solution through the IBM System Storage Interoperation Center (SSIC): http://www.ibm.com/systems/support/storage/ssic

Table 81. External SAS backup options

Part number	Description
External SAS tape backup drives	
6160S6E	IBM TS2260 Tape Drive Model H6S
6160S7E	IBM TS2270 Tape Drive Model H7S
6160S8E	IBM TS2280 Tape Drive Model H8S
6160S9E	IBM TS2290 Tape Drive Model H9S
External SAS tape backup autoloaders	
6171S6R	IBM TS2900 Tape Autoloader w/LTO6 HH SAS
6171S7R	IBM TS2900 Tape Autoloader w/LTO7 HH SAS
6171S8R	IBM TS2900 Tape Autoloader w/LTO8 HH SAS
6171S9R	IBM TS2900 Tape Autoloader w/LTO9 HH SAS
External tape backup libraries	
6741A1F	IBM TS4300 3U Tape Library Base Unit
6741B1F	IBM TS4300 3U Tape Library Base Unit - Max 48U
6741A3F	TS4300 Tape Library Expansion Unit
6741B3F	IBM TS4300 3U Tape Library Expansion Unit - Max 48U
SAS backup drives for TS4300 Tape Library	
01KP934	LTO 6 HH SAS Drive
01KP937	LTO 7 HH SAS Drive
01KP953	LTO 8 HH SAS Drive
02JH836	LTO 9 HH SAS Drive

For more information, see the list of Product Guides in the Backup units category: https://lenovopress.com/servers/options/backup

The following table lists the external RDX backup options available.

Table 82. External RDX dock and cartridges

Part number	Feature code	Description
External RDX docks		
4T27A10725	B32R	ThinkSystem RDX External USB 3.0 Dock (No cartridge included with the drive)
Cartridges		
7TP7A01601	AVF8	ThinkSystem RDX 500GB Cartridge
7TP7A01602	AVF1	ThinkSystem RDX 1TB Cartridge
7TP7A01603	AVF0	ThinkSystem RDX 2TB Cartridge
7TP7A04318	AXD1	ThinkSystem RDX 4TB Cartridge

For more information, see the Lenovo RDX USB 3.0 Disk Backup Solution product guide:
https://lenovopress.com/tips0894-rdx-usb-30

Top-of-rack Ethernet switches

The following table lists the Ethernet LAN switches that are offered by Lenovo.

Table 83. Ethernet LAN switches

Part number	Description
1 Gb Ethernet Rack switches	
7Y810011WW	Lenovo ThinkSystem NE0152T RackSwitch (Rear to Front)
7Z320O11WW	Lenovo ThinkSystem NE0152TO RackSwitch (Rear to Front, ONIE)
7159BAX	Lenovo RackSwitch G7028 (Rear to Front)
7159CAX	Lenovo RackSwitch G7052 (Rear to Front)
7159G52	Lenovo RackSwitch G8052 (Rear to Front)
7165H1X	Juniper EX2300-C PoE Switch
7165H2X	Juniper EX2300-24p PoE Switch
1 Gb Ethernet Campus switches	
7Z340011WW	Lenovo CE0128TB Switch (3-Year Warranty)
7Z360011WW	Lenovo CE0128TB Switch (Limited Lifetime Warranty)
7Z340012WW	Lenovo CE0128PB Switch (3-Year Warranty)
7Z360012WW	Lenovo CE0128PB Switch (Limited Lifetime Warranty)
7Z350021WW	Lenovo CE0152TB Switch (3-Year Warranty)
7Z370021WW	Lenovo CE0152TB Switch (Limited Lifetime Warranty)
7Z350022WW	Lenovo CE0152PB Switch (3-Year Warranty)
7Z370022WW	Lenovo CE0152PB Switch (Limited Lifetime Warranty)
10 Gb Ethernet switches	
7159A1X	Lenovo ThinkSystem NE1032 RackSwitch (Rear to Front)
7159B1X	Lenovo ThinkSystem NE1032T RackSwitch (Rear to Front)
7Z330O11WW	Lenovo ThinkSystem NE1064TO RackSwitch (Rear to Front, ONIE)
7159C1X	Lenovo ThinkSystem NE1072T RackSwitch (Rear to Front)
7159CRW	Lenovo RackSwitch G8272 (Rear to Front)
7159GR6	Lenovo RackSwitch G8296 (Rear to Front)
7159BR6	Lenovo RackSwitch G8124E (Rear to Front)
25 Gb Ethernet switches	
7159E1X	Lenovo ThinkSystem NE2572 RackSwitch (Rear to Front)
7Z210O21WW	Lenovo ThinkSystem NE2572O RackSwitch (Rear to Front, ONIE)
7Z330O21WW	Lenovo ThinkSystem NE2580O RackSwitch (Rear to Front, ONIE)
100 Gb Ethernet switches	
7159D1X	Lenovo ThinkSystem NE10032 RackSwitch (Rear to Front)
7Z210O11WW	Lenovo ThinkSystem NE10032O RackSwitch (Rear to Front, ONIE)

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

- 1 Gb Ethernet switches: http://lenovopress.com/networking/tor/1gb?rt=product-guide
- 10 Gb Ethernet switches: http://lenovopress.com/networking/tor/10gb?rt=product-guide
- 25 Gb Ethernet switches: http://lenovopress.com/networking/tor/25gb?rt=product-guide
- 40 Gb Ethernet switches: http://lenovopress.com/networking/tor/40gb?rt=product-guide
- 100 Gb Ethernet switches: https://lenovopress.com/networking/tor/100Gb?rt=product-guide

Fibre Channel SAN switches

Lenovo offers the ThinkSystem DB Series of Fibre Channel SAN switches for high-performance storage expansion. See the DB Series product guides for models and configuration options:

- ThinkSystem DB Series SAN Switches:
  https://lenovopress.com/storage/switches/rack#rt=product-guide

Uninterruptible power supply units

The following table lists the uninterruptible power supply (UPS) units that are offered by Lenovo.

Table 84. Uninterruptible power supply units

Part number	Description
Rack-mounted or tower UPS units - 100-125VAC	
7DD5A001WW	RT1.5kVA 2U Rack or Tower UPS-G2 (100-125VAC)
55941AX	RT1.5kVA 2U Rack or Tower UPS (100-125VAC)
55942AX	RT2.2kVA 2U Rack or Tower UPS (100-125VAC)
7DD5A003WW	RT3kVA 2U Rack or Tower UPS-G2 (100-125VAC)
55943AX	RT3kVA 2U Rack or Tower UPS (100-125VAC)
Rack-mounted or tower UPS units - 200-240VAC	
7DD5A002WW	RT1.5kVA 2U Rack or Tower UPS-G2 (200-240VAC)
55941KX	RT1.5kVA 2U Rack or Tower UPS (200-240VAC)
55942KX	RT2.2kVA 2U Rack or Tower UPS (200-240VAC)
7DD5A005WW	RT3kVA 2U Rack or Tower UPS-G2 (200-240VAC)
55943KX	RT3kVA 2U Rack or Tower UPS (200-240VAC)
7DD5A007WW	RT5kVA 3U Rack or Tower UPS-G2 (200-240VAC)
55945KX	RT5kVA 3U Rack or Tower UPS (200-240VAC)
7DD5A008WW	RT6kVA 3U Rack or Tower UPS-G2 (200-240VAC)
55946KX	RT6kVA 3U Rack or Tower UPS (200-240VAC)
55948KX	RT8kVA 6U Rack or Tower UPS (200-240VAC)
7DD5A00AWW	RT11kVA 6U Rack or Tower UPS-G2 (200-240VAC)
55949KX	RT11kVA 6U Rack or Tower UPS (200-240VAC)
55943KT†	ThinkSystem RT3kVA 2U Standard UPS (200-230VAC) (2x C13 10A, 2x GB 10A, 1x C19 16A outlets)
55943LT†	ThinkSystem RT3kVA 2U Long Backup UPS (200-230VAC) (2x C13 10A, 2x GB 10A, 1x C19 16A outlets)
55946KT†	ThinkSystem RT6kVA 5U UPS (200-230VAC) (2x C13 10A outlets, 1x Terminal Block output)
5594XKT†	ThinkSystem RT10kVA 5U UPS (200-230VAC) (2x C13 10A outlets, 1x Terminal Block output)
Rack-mounted or tower UPS units - 380-415VAC	
55948PX	RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)
55949PX	RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)

† Only available in China and the Asia Pacific market.

For more information, see the list of Product Guides in the UPS category:
https://lenovopress.com/servers/options/ups

Power distribution units

The following table lists the power distribution units (PDUs) that are offered by Lenovo.

Table 85. Power distribution units

Part number	Feature code	Description	ANZ	ASEAN	Brazil	EET	MEA	RUCIS	WE	HTK	INDIA	JAPAN	LA	NA	PRC
0U Basic PDUs															
4PU7A93176	C0QH	0U 36 C13 and 6 C19 Basic 32A 1 Phase PDU v2	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
4PU7A93169	C0DA	0U 36 C13 and 6 C19 Basic 32A 1 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
4PU7A93177	C0QJ	0U 24 C13/C15 and 24 C13/C15/C19 Basic 32A 3 Phase WYE PDU v2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4PU7A93170	C0D9	0U 24 C13/C15 and 24 C13/C15/C19 Basic 32A 3 Phase WYE PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
00YJ776	ATZY	0U 36 C13/6 C19 24A 1 Phase PDU	N	Y	Y	N	N	N	N	N	N	Y	Y	Y	N
00YJ779	ATZX	0U 21 C13/12 C19 48A 3 Phase PDU	N	N	Y	N	N	N	Y	N	N	Y	Y	Y	N
00YJ777	ATZZ	0U 36 C13/6 C19 32A 1 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y
00YJ778	AU00	0U 21 C13/12 C19 32A 3 Phase PDU	Y	Y	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y
0U Switched and Monitored PDUs															
4PU7A93181	C0QN	0U 21 C13/C15 and 21 C13/C15/C19 Switched and Monitored 48A 3 Phase Delta PDU v2 (60A derated)	N	Y	N	N	N	N	N	Y	N	Y	N	Y	N
4PU7A93174	C0D5	0U 21 C13/C15 and 21 C13/C15/C19 Switched and Monitored 48A 3 Phase Delta PDU (60A derated)	N	Y	N	N	N	N	N	Y	N	N	N	Y	N
4PU7A93178	C0QK	0U 20 C13 and 4 C19 Switched and Monitored 32A 1 Phase PDU v2	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
4PU7A93171	C0D8	0U 20 C13 and 4 C19 Switched and Monitored 32A 1 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
4PU7A93182	C0QP	0U 18 C13/C15 and 18 C13/C15/C19 Switched and Monitored 63A 3 Phase WYE PDU v2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4PU7A93175	C0CS	0U 18 C13/C15 and 18 C13/C15/C19 Switched and Monitored 63A 3 Phase WYE PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
4PU7A93180	C0QM	0U 18 C13/C15 and 18 C13/C15/C19 Switched and Monitored 32A 3 Phase WYE PDU v2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4PU7A93173	C0D6	0U 18 C13/C15 and 18 C13/C15/C19 Switched and Monitored 32A 3 Phase WYE PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
4PU7A93179	C0QL	0U 16 C13/C15 and 16 C13/C15/C19 Switched and Monitored 24A 1 Phase PDU v2 (30A derated)	N	Y	N	N	N	N	N	Y	N	Y	N	Y	N
4PU7A93172	C0D7	0U 16 C13/C15 and 16 C13/C15/C19 Switched and Monitored 24A 1 Phase PDU(30A derated)	N	Y	N	N	N	N	N	Y	N	N	N	Y	N
00YJ783	AU04	0U 12 C13/12 C19 Switched and Monitored 48A 3 Phase PDU	N	N	Y	N	N	N	Y	N	N	Y	Y	Y	N
00YJ781	AU03	0U 20 C13/4 C19 Switched and Monitored 24A 1 Phase PDU	N	N	Y	N	Y	N	Y	N	N	Y	Y	Y	N

Part number	Feature code	Description	ANZ	ASEAN	Brazil	EET	MEA	RUCIS	WE	HTK	INDIA	JAPAN	LA	NA	PRC
00YJ782	AU02	0U 18 C13/6 C19 Switched and Monitored 32A 3 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y
00YJ780	AU01	0U 20 C13/4 C19 Switched and Monitored 32A 1 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y
1U Switched and Monitored PDUs															
4PU7A90808	C0D4	1U 18 C19/C13 Switched and monitored 48A 3P WYE PDU V2 ETL	N	N	N	N	N	N	N	Y	N	Y	Y	Y	N
4PU7A81117	BNDV	1U 18 C19/C13 switched and monitored 48A 3P WYE PDU - ETL	N	N	N	N	N	N	N	N	N	N	N	Y	N
4PU7A90809	C0DE	1U 18 C19/C13 Switched and monitored 48A 3P WYE PDU V2 CE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
4PU7A81118	BNDW	1U 18 C19/C13 switched and monitored 48A 3P WYE PDU – CE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
4PU7A90810	C0DD	1U 18 C19/C13 Switched and monitored 80A 3P Delta PDU V2	N	N	N	N	N	N	N	Y	N	Y	Y	Y	N
4PU7A77467	BLC4	1U 18 C19/C13 Switched and Monitored 80A 3P Delta PDU	N	N	N	N	N	N	N	N	N	Y	N	Y	N
4PU7A90811	C0DC	1U 12 C19/C13 Switched and monitored 32A 3P WYE PDU V2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4PU7A77468	BLC5	1U 12 C19/C13 switched and monitored 32A 3P WYE PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4PU7A90812	C0DB	1U 12 C19/C13 Switched and monitored 60A 3P Delta PDU V2	N	N	N	N	N	N	N	Y	N	Y	Y	Y	N
4PU7A77469	BLC6	1U 12 C19/C13 switched and monitored 60A 3P Delta PDU	N	N	N	N	N	N	N	N	N	N	N	Y	N
46M4002	5896	1U 9 C19/3 C13 Switched and Monitored DPI PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
46M4004	5894	1U 12 C13 Switched and Monitored DPI PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
46M4003	5897	1U 9 C19/3 C13 Switched and Monitored 60A 3 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
46M4005	5895	1U 12 C13 Switched and Monitored 60A 3 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1U Ultra Density Enterprise PDUs (9x IEC 320 C13 + 3x IEC 320 C19 outlets)															
71763NU	6051	Ultra Density Enterprise C19/C13 PDU 60A/208V/3PH	N	N	Y	N	N	N	N	N	N	Y	Y	Y	N
71762NX	6091	Ultra Density Enterprise C19/C13 PDU Module	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1U C13 Enterprise PDUs (12x IEC 320 C13 outlets)															
39M2816	6030	DPI C13 PDU+	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
39Y8941	6010	Enterprise C13 PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1U C19 Enterprise PDUs (6x IEC 320 C19 outlets)															
39Y8948	6060	Enterprise C19 PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
39Y8923	6061	Enterprise C19 3 phase PDU (60a)	N	N	Y	N	N	N	Y	N	N	N	Y	Y	N
1U Front-end PDUs (3x IEC 320 C19 outlets)															
39Y8938	6002	DPI 30amp/125V Front-end PDU with NEMA L5-30P	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Part number	Feature code	Description	ANZ	ASEAN	Brazil	EET	MEA	RUCIS	WE	HTK	INDIA	JAPAN	LA	NA	PRC
39Y8939	6003	DPI 30amp/250V Front-end PDU with NEMA L6-30P	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
39Y8934	6005	DPI 32amp/250V Front-end PDU with IEC 309 2P+Gnd	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
39Y8940	6004	DPI 60amp/250V Front-end PDU with IEC 309 2P+Gnd connector	Y	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	N
39Y8935	6006	DPI 63amp/250V Front-end PDU with IEC 309 2P+Gnd connector	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
1U NEMA PDUs (6x NEMA 5-15R outlets)															
39Y8905	5900	DPI 100-127v PDU with Fixed Nema L5-15P line cord	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Line cords for 1U PDUs that ship without a line cord															
40K9611	6504	DPI 32a Cord (IEC 309 3P+N+G)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
40K9612	6502	DPI 32a Cord (IEC 309 P+N+G)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
40K9613	6503	DPI 63a Cord (IEC 309 P+N+G)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
40K9614	6500	DPI 30a Cord (NEMA L6-30P)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
40K9615	6501	DPI 60a Cord (IEC 309 2P+G)	N	N	Y	N	N	N	Y	N	N	Y	Y	Y	N
40K9617	6505	4.3m, 32A/230V, Souriau UTG to AS/NZS 3112 (Aus/NZ) Line Cord	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
40K9618	6506	4.3m, 32A/250V, Souriau UTG Female to KSC 8305 (S. Korea) Line Cord	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

For more information, see the Lenovo Press documents in the PDU category:
https://lenovopress.com/servers/options/pdu

Rack cabinets

The following table lists the supported rack cabinets.

Table 86. Rack cabinets

Model	Description
93072RX	25U Standard Rack (1000mm)
93072PX	25U Static S2 Standard Rack (1000mm)
7D6DA007WW	ThinkSystem 42U Onyx Primary Heavy Duty Rack Cabinet (1200mm)
7D6DA008WW	ThinkSystem 42U Pearl Primary Heavy Duty Rack Cabinet (1200mm)
7D6EA009WW	ThinkSystem 48U Onyx Primary Heavy Duty Rack Cabinet (1200mm)
7D6EA00AWW	ThinkSystem 48U Pearl Primary Heavy Duty Rack Cabinet (1200mm)
1410O42	Lenovo EveryScale 42U Onyx Heavy Duty Rack Cabinet
1410P42	Lenovo EveryScale 42U Pearl Heavy Duty Rack Cabinet
1410O48	Lenovo EveryScale 48U Onyx Heavy Duty Rack Cabinet
1410P48	Lenovo EveryScale 48U Pearl Heavy Duty Rack Cabinet
93604PX	42U 1200mm Deep Dynamic Rack
93614PX	42U 1200mm Deep Static Rack
93634PX	42U 1100mm Dynamic Rack
93634EX	42U 1100mm Dynamic Expansion Rack
93074RX	42U Standard Rack (1000mm)
93084PX	42U Enterprise Rack
93084EX	42U Enterprise Expansion Rack

For specifications about these racks, see the Lenovo Rack Cabinet Reference, available from:
https://lenovopress.com/lp1287-lenovo-rack-cabinet-reference

For more information, see the list of Product Guides in the Rack cabinets category:
https://lenovopress.com/servers/options/racks

KVM console options

The following table lists the supported KVM consoles.

Table 87. KVM console

Part number	Description
Consoles	
4XF7A84188	ThinkSystem 18.5" LCD console (with US English keyboard)
4XF7A73009	ThinkSystem 18.5" LCD console (with US English keyboard)
17238BX	1U 18.5" Standard Console (without keyboard - see the next table)

The following table lists the keyboards supported with the 1U 18.5" Standard Console (now withdrawn).

Note: These keyboards are not supported with the ThinkSystem 18.5" LCD Console.

Table 88. Keyboards for 1U 18.5" Standard Console

Part number	Description
7ZB7A05469	ThinkSystem Keyboard w/ Int.Pointing Device USB - Arabic 253 RoHS v2
7ZB7A05468	ThinkSystem Keyboard w/ Int. Pointing Device USB - Belg/UK 120 RoHS v2
7ZB7A05206	ThinkSystem Keyboard w/ Int. Pointing Device USB - Czech 489 RoHS v2
7ZB7A05207	ThinkSystem Keyboard w/ Int. Pointing Device USB - Danish 159 RoHS v2
7ZB7A05208	ThinkSystem Keyboard w/ Int. Pointing Device USB - Dutch 143 RoHS v2
7ZB7A05210	ThinkSystem Keyboard w/ Int. Pointing Device USB - Fr/Canada 445 RoHS v2
7ZB7A05209	ThinkSystem Keyboard w/ Int. Pointing Device USB - French 189 RoHS v2
7ZB7A05211	ThinkSystem Keyboard w/ Int. Pointing Device USB - German 129 RoHS v2
7ZB7A05212	ThinkSystem Keyboard w/ Int. Pointing Device USB - Greek 219 RoHS v2
7ZB7A05213	ThinkSystem Keyboard w/ Int. Pointing Device USB - Hebrew 212 RoHS v2
7ZB7A05214	ThinkSystem Keyboard w/ Int. Pointing Device USB - Hungarian 208 RoHS v2
7ZB7A05215	ThinkSystem Keyboard w/ Int. Pointing Device USB - Italian 141 RoHS v2
7ZB7A05216	ThinkSystem Keyboard w/ Int. Pointing Device USB - Japanese 194 RoHS v2
7ZB7A05217	ThinkSystem Keyboard w/ Int. Pointing Device USB - Korean 413 RoHS v2
7ZB7A05218	ThinkSystem Keyboard w/ Int. Pointing Device USB - LA Span 171 RoHS v2
7ZB7A05219	ThinkSystem Keyboard w/ Int. Pointing Device USB - Norwegian 155 RoHS v2
7ZB7A05220	ThinkSystem Keyboard w/ Int. Pointing Device USB - Polish 214 RoHS v2
7ZB7A05221	ThinkSystem Keyboard w/ Int. Pointing Device USB - Portugese 163 RoHS v2
7ZB7A05222	ThinkSystem Keyboard w/ Int. Pointing Device USB - Russian 441 RoHS v2
7ZB7A05223	ThinkSystem Keyboard w/ Int. Pointing Device USB - Slovak 245 RoHS v2
7ZB7A05231	ThinkSystem Keyboard w/ Int. Pointing Device USB - Slovenian 234 RoHS v2
7ZB7A05224	ThinkSystem Keyboard w/ Int. Pointing Device USB - Spanish 172 RoHS v2
7ZB7A05225	ThinkSystem Keyboard w/ Int. Pointing Device USB - Swed/Finn 153 RoHS v2
7ZB7A05226	ThinkSystem Keyboard w/ Int. Pointing Device USB - Swiss F/G 150 RoHS v2
7ZB7A05227	ThinkSystem Keyboard w/ Int. Pointing Device USB - Thai 191 RoHS v2
7ZB7A05467	ThinkSystem Keyboard with Int. Pointing Device USB - Trad Chinese/US 467 RoHS v2
7ZB7A05228	ThinkSystem Keyboard w/ Int. Pointing Device USB - Turkish 179 RoHS v2
7ZB7A05229	ThinkSystem Keyboard w/ Int. Pointing Device USB - UK Eng 166 RoHS v2
7ZB7A05470	ThinkSystem Keyboard w/ Int. Pointing Device USB - US Eng 103P RoHS v2
7ZB7A05230	ThinkSystem Keyboard w/ Int. Pointing Device USB - US Euro 103P RoHS v2

The following table lists the available KVM switches and the options that are supported with them.

Table 89. KVM switches and options

Part number	Description
KVM Console switches	
1754D1T	ThinkSystem Digital 2x1x16 KVM Switch (DVI video output port)
1754A1T	ThinkSystem Analog 1x8 KVM Switch (DVI video output port)
1754D2X	Global 4x2x32 Console Manager (GCM32)
1754D1X	Global 2x2x16 Console Manager (GCM16)
1754A2X	Local 2x16 Console Manager (LCM16)
1754A1X	Local 1x8 Console Manager (LCM8)
Cables for ThinkSystem Digital and Analog KVM Console switches	
4X97A11108	ThinkSystem VGA to DVI Conversion Cable
4X97A11109	ThinkSystem Single-USB Conversion Cable for Digital KVM
4X97A11107	ThinkSystem Dual-USB Conversion Cable for Digital KVM
4X97A11106	ThinkSystem USB Conversion Cable for Analog KVM
Cables for GCM and LCM Console switches	
43V6147	Single Cable USB Conversion Option (UCO)
39M2895	USB Conversion Option Pack
46M5383	Virtual Media Conversion Option Gen2 (VCO2)
46M5382	Serial Conversion Option (SCO)

For more information, see the list of Product Guides in the KVM Switches and Consoles category:
http://lenovopress.com/servers/options/kvm

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Ask your Lenovo Financial Services representative about this promotion and how to submit a credit application. For the majority of credit applicants, we have enough information to deliver an instant decision and send a notification within minutes.

Seller training courses

The following sales training courses are offered for employees and partners (login required). Courses are listed in date order.

1. **Family Portfolio: ThinkSystem Rack and Tower Servers Powered by Intel**
   2025-06-23 | 25 minutes | Employees and Partners

   This course is designed to give Lenovo sales and partner representatives a foundation of the ThinkSystem Intel Rack and Tower server family.

   After completing this course, you will be able to:
   • Identify products within this ThinkSystem server family
   • Describe features of this family
   • Recognize when a specific product should be selected

   Tags: Server, ThinkSystem

   Published: 2025-06-23
   Length: 25 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo
   > Partner link: Lenovo 360 Learning Center

   Course code: SXXW1204r14

2. **ThinkSystem Rack and Tower Introduction for ISO Client Managers**
   2025-06-16 | 20 minutes | Employees Only

   In this course, you will learn about Lenovo's Data Center Portfolio, its ThinkSystem Family and the key features of the Rack and Tower servers. It will equip you with foundational knowledge which you can then expand upon by participating in the facilitated session of the curriculum.

   Tags: Server, ThinkSystem

   Published: 2025-06-16
   Length: 20 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo

   Course code: DSRTO101r2_JP

3. **VTT HPC: AI and the Impact on the Environment**
2025-06-11 | 58 minutes | Employees Only

Please join us as Matthew Ziegler, Director of Lenovo Neptune and Sustainability speaks with us about AI and the Impact on the Environment.

Topics will include:

- Why is ESG essential for your customer?
- How to find and read an eco declaration
- What is a product carbon footprint?
- Demo of the Lenovo Capacity Planner

Tags: Advanced DataCenter, Artificial Intelligence (AI), Environmental Social Governance (ESG), High-Performance Computing (HPC), Server

Published: 2025-06-11
Length: 58 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVHPC223

4. **Lenovo Data Center Product Portfolio**
2025-06-11 | 20 minutes | Employees and Partners

This course introduces the Lenovo data center portfolio, and covers servers, storage, storage networking, and software-defined infrastructure products. After completing this course about Lenovo data center products, you will be able to identify product types within each data center family, describe Lenovo innovations that this product family or category uses, and recognize when a specific product should be selected.

Course objectives:
1.Identify product types within each data center family
2.Describe the features of the product family or category
3.Recognize when a specific product should be selected

Tags: Advanced DataCenter, DataCenter Products, Server, ThinkAgile, ThinkEdge, ThinkSystem

Published: 2025-06-11
Length: 20 minutes

Start the training:
Employee link: Grow@Lenovo
Partner link: Lenovo 360 Learning Center

Course code: SXXW1110r8

5. **Partner Technical Webinar - RTX Pro 6000**
   2025-05-22 | 60 minutes | Employees and Partners

   In this 60-minute replay, Allen Bourgoyne, Product Marketing for NVIDIA, presented the newly announced RTX Pro 6000 Blackwell Server Edition GPU.

   Tags: Artificial Intelligence (AI)

   Published: 2025-05-22
   Length: 60 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo
   > Partner link: Lenovo 360 Learning Center

   Course code: MAY1525

6. **Partner Technical Webinar - DCSC Improvements - MAY0225**
   2025-05-05 | 60 minutes | Employees and Partners

   In this 60-minute replay, new improvements to DCSC were reviewed. Joe Allen, Lenovo NA LETS, presented the new PCI wizard and discussed RAID adapters. Ryan Tuttle, Lenovo NA LETS presented Spreadsheet import, Autocorrect and Expanded selections on by default. Joe Murphy, Lenovo NA LETS closed out with review of Error Message improvements and location of ThinkAgile MX and VX in the DCSC menus.

   Tags: Technical Sales

   Published: 2025-05-05
   Length: 60 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo
   > Partner link: Lenovo 360 Learning Center

   Course code: MAY0225

7. **VTT AI: Introducing the Lenovo Hybrid AI 285 Platform April 2025**
   2025-04-30 | 60 minutes | Employees Only

   The Lenovo Hybrid AI 285 Platform enables enterprises of all sizes to quickly deploy AI infrastructures supporting use cases as either new greenfield environments or as an extension to current infrastructures. The 285 Platform enables the use of the NVIDIA AI Enterprise software stack. The AI Hybrid 285 platform is the perfect foundation supporting Lenovo Validated Designs.
   • Technical overview of the Hybrid AI 285 platform
   • AI Hybrid platforms as infrastructure frameworks for LVDs addressing data center-based AI solutions.
   • Accelerate AI adoption and reduce deployment risks

   Tags: Artificial Intelligence (AI), Nvidia, Technical Sales, Lenovo Hybrid AI 285

   Published: 2025-04-30
   Length: 60 minutes

   > **Start the training:**
   > Employee link: Grow@Lenovo

   Course code: DVAI215

8. **Family Portfolio: Storage Controller Options**
   2025-03-03 | 25 minutes | Employees and Partners

   This course covers the storage controller options available for use in Lenovo servers. The classes of storage controller are discussed, along with a discussion of where they are used, and which to choose.

   After completing this course, you will be able to:
   • Describe the classes of storage controllers
   • Discuss where each controller class is used
   • Describe the available options in each controller class

   Tags: Sales, Storage

   Published: 2025-03-03
   Length: 25 minutes

   Start the training:
   Employee link: Grow@Lenovo
   Partner link: Lenovo 360 Learning Center

   Course code: SXXW1111r2

9. **ThinkSystem Rack and Tower Introduction for ISO Client Managers**
   2024-12-10 | 20 minutes | Employees Only

   In this course, you will learn about Lenovo's Data Center Portfolio, its ThinkSystem Family and the key features of the Rack and Tower servers. It will equip you with foundational knowledge which you can then expand upon by participating in the facilitated session of the curriculum.

   Course Objectives:
   • By the end of this course, you should be able to:
   • Identify Lenovo's main data center brands.
   • Describe the key components of the ThinkSystem Family servers.
   • Differentiate between the Rack and Tower servers of the ThinkSystem Family.
   • Understand the value Rack and Tower servers can provide to customers.

   Tags: Server, ThinkSystem

   Published: 2024-12-10
   Length: 20 minutes

   Start the training:
   Employee link: Grow@Lenovo

   Course code: DSRTO101r2

10. **Partner Technical Webinar - Server Update with Mark Bica**
    2024-11-26 | 60 minutes | Employees and Partners

    In this 60-minute replay, Mark Bica, Lenovo Product Manager gave an update on the server portfolio. Mark presented on the new V4 Intel servers with Xeon 6 CPUs. He reviewed where the new AMD 5th Gen EPYC CPUs will be used in our servers. He followed with a review of the GPU dense servers including SR680, SR680a, SR575 and SR780a. Mark concluded with a review of the SC777 and SC750 that were introduced at TechWorld.

    Tags: Server

    Published: 2024-11-26
    Length: 60 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: 112224

11. **Family Portfolio: ThinkSystem Rackmount and Tower Servers powered by AMD**
    2024-11-25 | 30 minutes | Employees and Partners

    This course presents the key products and features of the ThinkSystem Rackmount and Tower server family powered by AMD processors. It describes customer benefits and will help you recognize when a specific product should be selected.

    Course Objectives:
    By the end of this course, you should be able to:
    • Identify products and features within the family
    • Describe customer benefits offered by this family
    • Recognize when a specific product should be selected

    Tags: Server, ThinkSystem

    Published: 2024-11-25
    Length: 30 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: SXXW1216r10

12. **Partner Technical Webinar - LenovoPress updates and LPH Demo**
2024-11-13 | 60 minutes | Employees and Partners

In this 60-minute replay, we had 3 topics. First, David Watts, Lenovo Sr Manager LenovoPress, gave an update on LenovoPress and improvements to finding Seller Training Courses (both partner and Lenovo). Next, Ryan Tuttle, Lenovo LETS Solution Architect, gave a demo of Lenovo Partner Hub (LPH) including how to find replays of Partner Webinars in LPL. Finally, Joe Murphy, Lenovo Sr Manager of LETS NA, gave a quick update on the new Stackable Warranty Options in DCSC.

Tags: Technical Sales

Published: 2024-11-13
Length: 60 minutes

> **Start the training:**
> Employee link: Grow@Lenovo
> Partner link: Lenovo 360 Learning Center

Course code: 110824

13. **Virtual Facilitated Session - ThinkSystem Rack and Tower Primer for ISO Client Managers**
2024-10-31 | 90 minutes | Employees Only

In this Virtual Instructor-Led Training Session, ISO Client Managers will be able to build on the knowledge gained in Module 1 (eLearning) of the ThinkSystem Rack and Tower Server Primer for ISO Client Managers curriculum.

IMPORTANT! Module 1 (eLearning) must be completed to be eligible to participate in this session. Please note that places are subject to availability. If you are selected, you will receive the invite to this session via email.

Tags: Sales, Server, ThinkSystem

Published: 2024-10-31
Length: 90 minutes

> **Start the training:**
> Employee link: Grow@Lenovo

Course code: DSRTO102

14. **Partner Technical Webinar - OneIQ**
2024-07-15 | 60 minutes | Employees and Partners

In this 60-minute replay, Peter Grant, Field CTO for OneIQ, reviewed and demo'd the capabilities of OneIQ including collecting data and analyzing. Additionally, Peter and the team discussed how specific partners (those with NA Channel SA coverage) will get direct access to OneIQ and other partners can get access to OneIQ via Distribution or the NA LETS team.

Tags: Technical Sales

Published: 2024-07-15
Length: 60 minutes

> **Start the training:**
> Employee link: Grow@Lenovo
> Partner link: Lenovo 360 Learning Center

Course code: 071224

15. **SAP Webinar for Lenovo Sellers: Lenovo Portfolio Update for SAP Landscapes**
2024-06-04 | 60 minutes | Employees Only

Join Mark Kelly, Advisory IT Architect with the Lenovo Global SAP Center of Competence as he discusses:
•Challenges in the SAP environment
•Lenovo On-premise Solutions for SAP
•Lenovo support resources for SAP solutions

Tags: SAP, ThinkAgile, ThinkEdge, ThinkSystem

Published: 2024-06-04
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DSAPF101

16. **VTT Cloud Architecture: NVIDIA Using Cloud for GPUs and AI**
2024-05-22 | 60 minutes | Employees Only

Join JD Dupont, NVIDIA Head of Americas Sales, Lenovo partnership and Veer Mehta, NVIDIA Solution Architect on an interactive discussion about cloud to edge, designing cloud Solutions with NVIDIA GPUs and minimizing private\hybrid cloud OPEX with GPUs. Discover how you can use what is done at big public cloud providers for your customers. We will also walk through use cases and see a demo you can use to help your customers.

Tags: Artificial Intelligence (AI), Cloud, Nvidia, Software Defined Infrastruture (SDI), Technical Sales

Published: 2024-05-22
Length: 60 minutes

Start the training:
Employee link: Grow@Lenovo

Course code: DVCLD212

17. **Family Introduction: Rack and Tower**
    2024-01-19 | 11 minutes | Employees and Partners

    This course is designed to give Lenovo sales and partner representatives a foundation on the characteristics of the rack and tower server family. As an introduction to the family, this course also includes positioning, when to use a product, and keywords a client may use when discussing a rack product.

    Course Objectives:
    •Family Characteristics
    •Priority Positioning
    •Product Usage
    •Keywords and Phrases

    Tags: Server

    Published: 2024-01-19
    Length: 11 minutes

    > **Start the training:**
    > Employee link: Grow@Lenovo
    > Partner link: Lenovo 360 Learning Center

    Course code: SXXW1100r3

Related publications and links

For more information, see these resources:

- Lenovo ThinkSystem SR655 product page:
  https://www.lenovo.com/us/en/data-center/servers/racks/ThinkSystem-SR655-Server/p/77XX7SRSR75
- Interactive 3D Tour of the ThinkSystem SR655:
  https://lenovopress.com/lp1183
- Lenovo Press video walk-through of the ThinkSystem SR655:
  https://lenovopress.com/lp1185
- ThinkSystem SR655 drivers and support
  http://datacentersupport.lenovo.com/products/servers/thinksystem/sr655/7z01/downloads
- Lenovo Hardware Installation & Removal Videos on the SR655:
  - YouTube: https://www.youtube.com/playlist?list=PLYV5R7hVcs-BYjgwMTzXbgbC6fhKRsCdR
  - Youku: http://list.youku.com/albumlist/show/id_52222445.html
- Lenovo ThinkSystem SR655 product publications:
  http://thinksystem.lenovofiles.com/help/index.jsp
  - Quick Start
  - Rack Installation Guide
  - Setup Guide
  - Hardware Maintenance Manual
  - Messages and Codes Reference
  - Memory Population Reference
- ServerProven hardware compatibility:
  http://www.lenovo.com/us/en/serverproven

Related product families

Product families related to this document are the following:

- 1-Socket Rack Servers
- ThinkSystem SR655 Server

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