Uninterruptible power supply units

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

Table 77. Uninterruptible power supply units

Part number	Description
55941AX	RT1.5kVA 2U Rack or Tower UPS (100-125VAC)
55941KX	RT1.5kVA 2U Rack or Tower UPS (200-240VAC)
55942AX	RT2.2kVA 2U Rack or Tower UPS (100-125VAC)
55942KX	RT2.2kVA 2U Rack or Tower UPS (200-240VAC)
55943AX	RT3kVA 2U Rack or Tower UPS (100-125VAC)
55943KX	RT3kVA 2U Rack or Tower UPS (200-240VAC)
55945KX	RT5kVA 3U Rack or Tower UPS (200-240VAC)
55946KX	RT6kVA 3U Rack or Tower UPS (200-240VAC)
55948KX	RT8kVA 6U Rack or Tower UPS (200-240VAC)
55949KX	RT11kVA 6U Rack or Tower UPS (200-240VAC)
55948PX	RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)
55949PX	RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)
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)

† Only available in China and countries in the Asia Pacific region.

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

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

https://www.lenovo.com/us/en/landingpage/lenovo-financial-services/

Related publications and links

For more information, see these resources:

- ThinkSystem SR650 product page
  https://www.lenovo.com/us/en/data-center/servers/racks/ThinkSystem-SR650/p/77XX7SRSR65

- Datasheet for the ThinkSystem SR650:
  https://lenovopress.com/ds0032-lenovo-thinksystem-sr650

- 3D Interactive Tour of the ThinkSystem SR650:
  https://lenovopress.com/lp0673-3d-tour-thinksystem-sr650

- Walkthrough Video for the ThinkSystem SR650:
  https://lenovopress.com/lp0700-thinksystem-sr650-server-video-walkthrough

- User Manuals for the ThinkSystem SR650:
  https://thinksystem.lenovofiles.com/help/topic/7X05/introduction.html?cp=4_9
    - Quick Start Guide
    - Setup Guide
    - Rack Installation Guides
    - Maintenance Manual
    - Messages and Codes Reference
    - UEFI Manual

- Lenovo Data Center Support Downloads - ThinkSystem SR650:
  http://datacentersupport.lenovo.com/products/servers/thinksystem/sr650/7x05/downloads
  http://datacentersupport.lenovo.com/products/servers/thinksystem/sr650/7x06/downloads

- Lenovo Hardware Installation & Removal Videos on the ThinkSystem SR650:
    - YouTube: https://www.youtube.com/playlist?list=PLYV5R7hVcs-A25P7vBoGa_wn7D7XTgDS_
    - Youku: https://list.youku.com/albumlist/show/id_50483444

- Lenovo Data Center Solution Configurator (DCSC):
  http://dcsc.lenovo.com

Related product families

Product families related to this document are the following:

- 2-Socket Rack Servers
- ThinkSystem SR650 Server

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PLANILHA DE COMPOSIÇÃO DE CUSTO

ITEM	DESCRIÇÃO DETALHADA DO ITEM
05	Servidor Lenovo SR630 Xeon 4208 32Gb
CUSTO DE AQUISIÇÃO / PRODUÇÃO EM R$ (A)	
CUSTO DO PRODUTO NO FABRICANTE	33.052,61
CUSTO DA GARANTIA NO FABRICANTE	2.872,92
CUSTO DE SOFTWARE	-
IMPOSTOS E TAXAS EM R$ (B)	
PIS/COFINS (Apuração Débito menos Crédito)	2.336,31
ICMS (Apuração Débito menos Crédito)	3.030,89
ICMS (Diferencial de Alíquota)	2.041,68
ISS (sobre serviço de garantia do fabricante)	-
I.R e CSLL = 2,20%	1.264,06
TRANSPORTE - CUSTO DE CARGA E DESCARGA EM R$ (C)	
FRETE	270,37
OUTROS CUSTOS EM R$ (D)	
DESPESAS ADMINISTRATIVAS	10.609,09
LUCRO R$ (E)	
LUCRO	4.022,07
VALOR TOTAL DO ITEM (A+B+C+D+E)	R$ 59.500,00
Valor total R$ 6.902.000,00 (Seis milhões, novecentos e dois mil reais)	

Produtos Intel® / Processadores Intel® para PC, notebooks, servidores e IA

Processador Intel® Xeon® Silver 4208 cache de 11 M, 2,10 GHz

Processador Intel® Xeon® Silver 4208 cache de 11 M, 2,10 GHz

☐ Adicionar para comparar

Especificações

Baixe as especificações ↑

Essenciais

Coleção de produtos	Processadores escaláveis Intel® Xeon® da 2ª Geração
Codinome	Produtos com denominação anterior Cascade Lake
Segmento vertical	Server
Número do processador	4208
Status	Launched
Data de introdução ⑦	Q2'19
Litografia ⑦	14 nm
Preço recomendado para o cliente ⑦	$446.00 - $458.00

Especificações da CPU

Número de núcleos ⑦	8
Nº de threads ⑦	16
Frequência turbo max ⑦	3.20 GHz
Frequência baseada em processador ⑦	2.10 GHz
Cache ⑦	11 MB
Nº de links de UPI ⑦	2
TDP ⑦	85 W

Informações complementares

☰

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Opções integradas disponíveis ②	Não
Descrição resumida do produto	Ver agora

Especificações de memória

Tamanho máximo de memória (de acordo com o tipo de memória) ②	1 TB
Tipos de memória ②	DDR4-2400
Velocidade máxima de memória	2400 MHz
Nº máximo de canais de memória ②	6
Compatibilidade com memória ECC ⁺ ②	Sim
Memória persistente Intel® Optane™ DC com suporte ②	Não

Opções de expansão

Escalabilidade	2S
Revisão de PCI Express ②	3.0
Nº máximo de linhas PCI Express ②	48

Especificações de encapsulamento

Soquetes suportados ②	FCLGA3647
T_CASE ②	78°C
Tamanho do pacote	76.0mm x 56.5mm

Tecnologias avançadas

Intel® Deep Learning Boost (Intel® DL Boost) ②	Sim
Intel® Speed Select Technology – Perfil de desempenho ②	Não
Intel® Speed Select Technology – Frequência básica ②	Não
Intel® Resource Director Technology (Intel® RDT) ②	Sim
Tecnologia Intel® Speed Shift ②	Sim
Tecnologia Intel® Turbo Boost Max 3.0 ⁺ ②	Não
Tecnologia Intel® Turbo Boost ⁺ ②	2.0
Elegibilidade da plataforma Intel® vPro™ ⁺ ②	Sim
Tecnologia Hyper-Threading Intel® ⁺ ②	Sim
Tecnologia de virtualização Intel® (VT-x) ⁺ ②	Sim

•

Tecnologia de virtualização Intel® para E/S dirigida (VT-d) ‡ ⑦	Sim
Intel® VT-x com Tabelas de páginas estendidas (EPT) ‡ ⑦	Sim
Intel® TSX-NI ⑦	Sim
Intel® 64 ‡ ⑦	Sim
Extensões do conjunto de instruções ⑦	Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512
Nº de unidades de FMA de AVX-512 ⑦	1
Tecnologia Enhanced Intel SpeedStep® ⑦	Sim
Intel® Volume Management Device (VMD - Dispositivo de Gerenciamento de Volume) ⑦	Sim

Segurança e confiabilidade

Novas instruções Intel® AES ⑦	Sim
Intel® Trusted Execution Technology ‡ ⑦	Sim
Bit de desativação de execução ‡ ⑦	Sim
Tecnologia Intel® Run Sure ⑦	Não
Controle de Execução baseado em Modo (MBE — Mode-based Execute Control) ⑦	Sim

Todas as informações fornecidas estão sujeitas a alterações a qualquer momento, sem aviso prévio. A Intel pode alterar o ciclo de vida da fabricação, as especificações e as descrições dos produtos a qualquer momento, sem aviso prévio. As informações aqui contidas são fornecidas "no estado em que se encontram" e a Intel não atribui qualquer declaração ou garantias relacionadas a precisão das informações, nem sobre os recursos dos produtos, disponibilidade, funcionalidade ou compatibilidade dos produtos listados. Para obter mais informações sobre os produtos ou sistemas, entre em contato com o fornecedor do sistema.

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Os números dos processadores Intel não são indicação de desempenho. Os números dos processadores diferenciam recursos dentro de cada família de processador, e não entre famílias diferentes de processadores. Consulte https://www.intel.com.br/content/www/br/pt/processors/processor-numbers.html para obter mais detalhes.

SKUs "anunciados" ainda não estão disponíveis. Favor consultar a data de lançamento para a disponibilidade no mercado.

O TDP máximo e do sistema se baseiam nos piores casos. O TDP real pode ser inferior, se nem todas as E/Ss para chipsets forem utilizadas.

Frequência máxima de turbo refere-se a frequência máxima do processador de núcleo único que pode ser atingida com a Tecnologia Intel® Turbo Boost. Mais informações estão disponíveis no site https://www.intel.com/content/www/br/pt/architecture-and-technology/turbo-boost/turbo-boost-technology.html .

Consulte https://www.intel.com.br/content/www/br/pt/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading para obter mais informações, incluindo detalhes sobre quais processadores são compatíveis com a Tecnologia Hyper-Threading Intel®.

Os processadores compatíveis com a computação de 64 bits na arquitetura Intel® requerem BIOS habilitados para arquitetura Intel 64.

Alguns produtos suportam as novas instruções AES com uma atualização da Configuração do processador, em particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Favor entrar em contato com o OEM para o BIOS que inclui a mais recente atualização da Configuração do processador.

Informações sobre a empresa

Lenovo ThinkSystem SR630 Server (Xeon SP Gen 1 / Gen 2)
Product Guide

Lenovo ThinkSystem SR630 is an ideal 2-socket 1U rack server for small businesses up to large enterprises that need industry-leading reliability, management, and security, as well as maximizing performance and flexibility for future growth. The SR630 server is designed to handle a wide range of workloads, such as databases, virtualization and cloud computing, virtual desktop infrastructure (VDI), infrastructure security, systems management, enterprise applications, collaboration/email, streaming media, web, and HPC.

Featuring the second generation of the Intel Xeon Processor Scalable Family (Xeon SP Gen 2), the SR630 server offers scalable performance and storage capacity. The SR630 server supports up to two processors, up to 3 TB of memory capacity with TruDDR4 DIMMs or up to 7.5 TB of memory capacity with a combination of TruDDR4 DIMMs and Intel DC persistent memory modules (DCPMMs), up to 12x 2.5-inch or 4x 3.5-inch drive bays with an extensive choice of NVMe PCIe SSDs, SAS/SATA SSDs, and SAS/SATA HDDs, and flexible I/O expansion options with a LOM slot, a dedicated storage controller slot, and up to 3x PCIe slots.

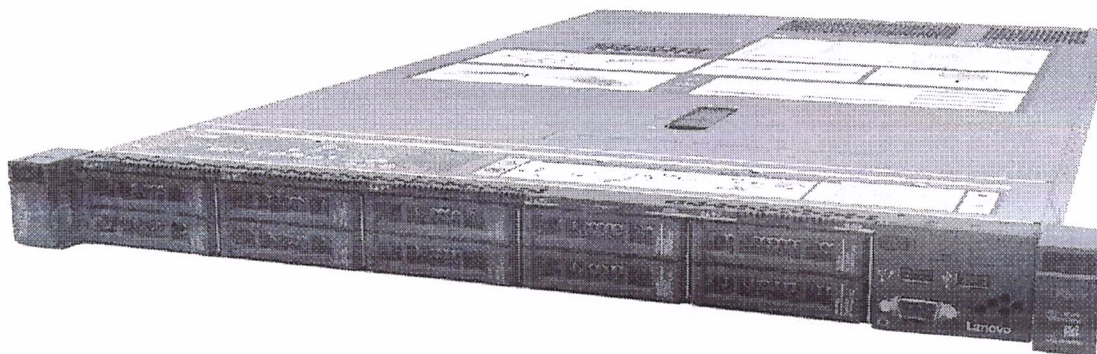The following figure shows the Lenovo ThinkSystem SR630 with 2.5-inch hot-swap drives.

Figure 1 Lenovo ThinkSystem SR630 with 2.5-inch drive bays

Did you know?

The SR630 server features a unique AnyBay design that allows a choice of drive interface types in the same drive bay: SAS drives, SATA drives, or U.2 NVMe PCIe drives.

The SR630 server offers onboard NVMe PCIe ports that allow direct connections to the U.2 NVMe PCIe SSDs, which frees up I/O slots and helps lower NVMe solution acquisition costs.

The SR630 server delivers outstanding memory performance with Performance+ 2933 MHz DIMMs, which is achieved by supporting two-DIMMs-per-channel configurations at speeds up to 10% faster than the Intel specification defines, while still maintaining world-class reliability.

Key features

Combining performance and flexibility, the SR630 server is a great choice for small and medium businesses up to the large enterprise. It can provide outstanding uptime to keep business-critical applications and cloud deployments running safely. Ease of use and comprehensive systems management tools help make deployment easier. Outstanding reliability, availability, and serviceability (RAS) and high-efficiency design improve your business environment and help save operational costs.

Scalability and performance

The SR630 server offers numerous features to boost performance, improve scalability, and reduce costs:

- Improves productivity by offering superior system performance with the second generation of the Intel Xeon Processor Scalable Family with up to 28-core processors, up to 38.5 MB of last level cache (LLC), up to 2933 MHz memory speeds, and up to 10.4 GT/s Ultra Path Interconnect (UPI) links.
  - Support for up to two processors, 56 cores, and 112 threads allows to maximize the concurrent execution of multithreaded applications.
  - Intelligent and adaptive system performance with energy efficient Intel Turbo Boost 2.0 Technology allows CPU cores to run at maximum speeds during peak workloads by temporarily going beyond processor thermal design power (TDP).
  - Intel Hyper-Threading Technology boosts performance for multithreaded applications by enabling simultaneous multithreading within each processor core, up to two threads per core.
  - Intel Virtualization Technology integrates hardware-level virtualization hooks that allow operating system vendors to better utilize the hardware for virtualization workloads.
  - Intel Speed Select Technology provides improvements in server utilization and guaranteed per-core performance service levels with more granular control over processor performance.
  - Intel Deep Learning Boost (Vector Neural Network Instruction set [VNNI]) is designed to deliver significant, more efficient Deep Learning (Inference) acceleration for high-performance Artificial Intelligence (AI) workloads.
  - Intel Advanced Vector Extensions 512 (AVX-512) enable acceleration of enterprise-class and high performance computing (HPC) workloads.
- Helps maximize system performance for data intensive applications with up to 2933 MHz memory speeds and up to 3 TB of memory capacity with 3DS RDIMMs.
- Boosts the performance of data-intensive applications and delivers consistent service levels at scale for virtualized and cloud environments by using the innovative persistent memory technology that provides a unique combination of affordable large memory capacity and non-volatility for up to 7.5 TB of total server memory capacity, including 3DS RDIMMs and DCPMMs (DC persistent memory modules).
- Offers flexible and scalable internal storage in a 1U rack form factor with up to 12x 2.5-inch drives for performance-optimized configurations or up to 4x 3.5-inch drives for capacity-optimized configurations, providing a wide selection of SAS/SATA HDD/SSD and PCIe NVMe SSD types and capacities.
- Provides flexibility to use SAS, SATA, or NVMe PCIe drives in the same drive bays with a unique AnyBay design.
- Provides I/O scalability with the LOM slot, PCIe 3.0 slot for an internal storage controller, and up to three PCI Express (PCIe) 3.0 I/O expansion slots in a 1U rack form factor.
- Reduces I/O latency and increases overall system performance with Intel Integrated I/O Technology that embeds the PCI Express 3.0 controller into the Intel Xeon Processor Scalable Family.

Availability and serviceability

The SR630 server provides many features to simplify serviceability and increase system uptime:

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

Manageability and security

Powerful systems management features simplify local and remote management of the SR630 server and deliver enterprise-class data protection:

- Provides advanced service processor control, monitoring, and alerting functions with XClarity Controller, a next generation service processor.
- Improves Unified Extensible Firmware Interface (UEFI) system setup, configuration, updates, simplified error handling, and operating system deployment with the embedded XClarity Provisioning Manager.
- Offers XClarity Essentials software tools that can help you set up, use, and maintain the server.
- Increases uptime, reduces costs, and improves productivity through advanced server management capabilities with Lenovo XClarity Administrator that provides comprehensive hardware management.
- Provides on-the-go monitoring and management of devices in XClarity Administrator from anywhere with the Lenovo XClarity mobile app, which can help improve efficiency and reduce downtime risks.
- Centralizes infrastructure resource management with Lenovo XClarity Integrators for VMware vCenter and Microsoft System Center, extending XClarity Administrator features to virtualization management software tools and enabling users to deploy and manage infrastructure end-to-end.
- Offers advanced cryptographic functionality (such as digital signatures and remote attestation) with an integrated Trusted Platform Module (TPM) or optional Trusted Cryptographic Module (TCM) or Nationz TPM (available only in PRC).
- Keeps user data safe with Lenovo Business Vantage, a security software tool suite designed to work with the Trusted Cryptographic Module (available only in PRC).
- Offers enterprise-class data protection with advanced RAID and optional self-encrypting drives.
- Provides faster, stronger encryption with industry-standard AES NI support.
- Helps prevent certain classes of malicious buffer overflow attacks with Intel Execute Disable Bit

functionality, when combined with a supporting operating system.

- Enhances security through hardware-based resistance to malicious software attacks with Intel Trusted Execution Technology, allowing an application to run in its own isolated space, protected from all other software running on a system.

Energy efficiency

The SR630 server offers the following energy-efficiency features to save energy, reduce operational costs, increase energy availability, and contribute to the green environment:

- Delivers impressive compute power per watt, featuring 80 PLUS Titanium and Platinum redundant power supplies.
- Enables customers to lower energy costs with design to meet ASHRAE A4 standards in select configurations.
- Reduces power drawn with Intel Intelligent Power Capability that powers individual processor elements on and off as needed.
- Helps reduce power consumption with variable speed fans.
- Helps achieve lower heat output and reduced cooling needs with Lenovo XClarity Energy Manager that provides advanced data center power notification, analysis, and policy-based management.

Components and connectors

The following figure shows the front of the SR630 server with four 3.5-inch drive bays.
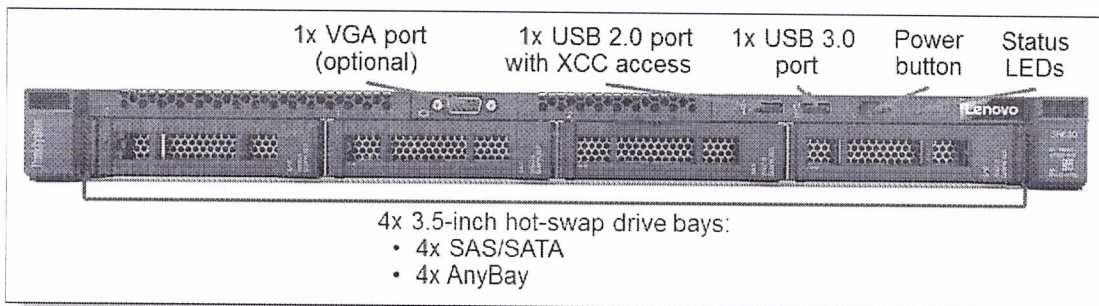

Figure 2. Front view of the SR630: 4x 3.5-inch drive bays

The following figure shows the front of the SR630 server with eight 2.5-inch drive bays.
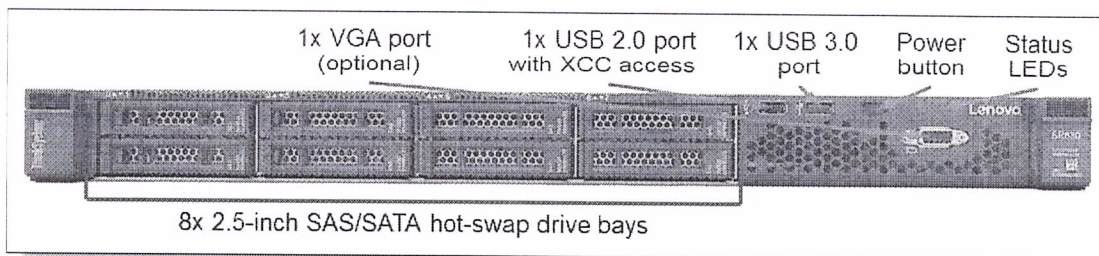

Figure 3. Front view of the SR630: 8x 2.5-inch drive bays

The following figure shows the front of the SR630 server with ten 2.5-inch drive bays.
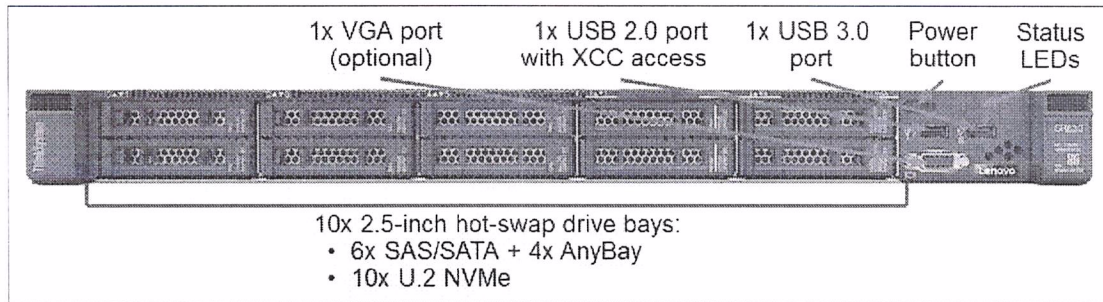
Figure 4. Front view of the SR630: 10x 2.5-inch drive bays

The front of the SR630 server includes the following components:

- 4x 3.5-inch, or 8x 2.5-inch, or 10x 2.5-inch hot-swap drive bays.
- One VGA port (optional).
- One USB 3.0 port.
- One USB 2.0 port with XClarity Controller access.
- Power button.
- Status LEDs.

The following figure shows the rear of the SR630 server with three PCIe low profile slots.
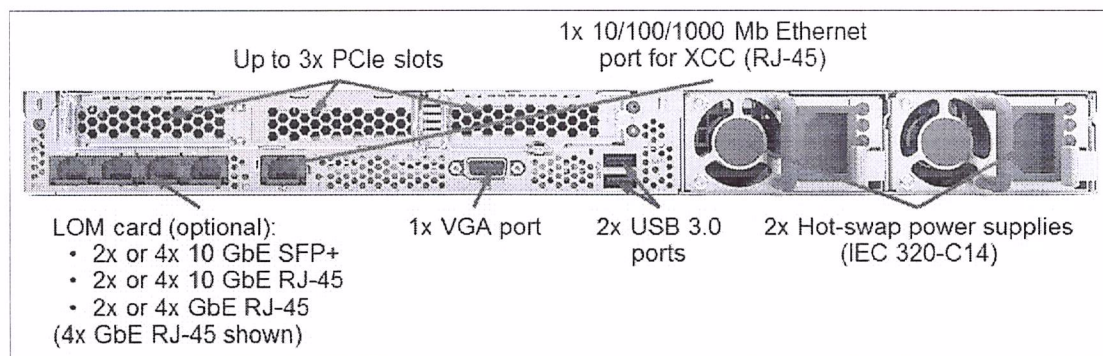

Figure 5. Rear view of the SR630

The rear of the SR630 server includes the following components:

- Up to three PCIe expansion slots (depending on the riser cards selected).
- One LOM card slot.
- One 1 GbE port for XClarity Controller.
- One VGA port.
- Two USB 3.0 ports.
- Up to two hot-swap power supplies.

The following figure shows the locations of key components inside the SR630 server.
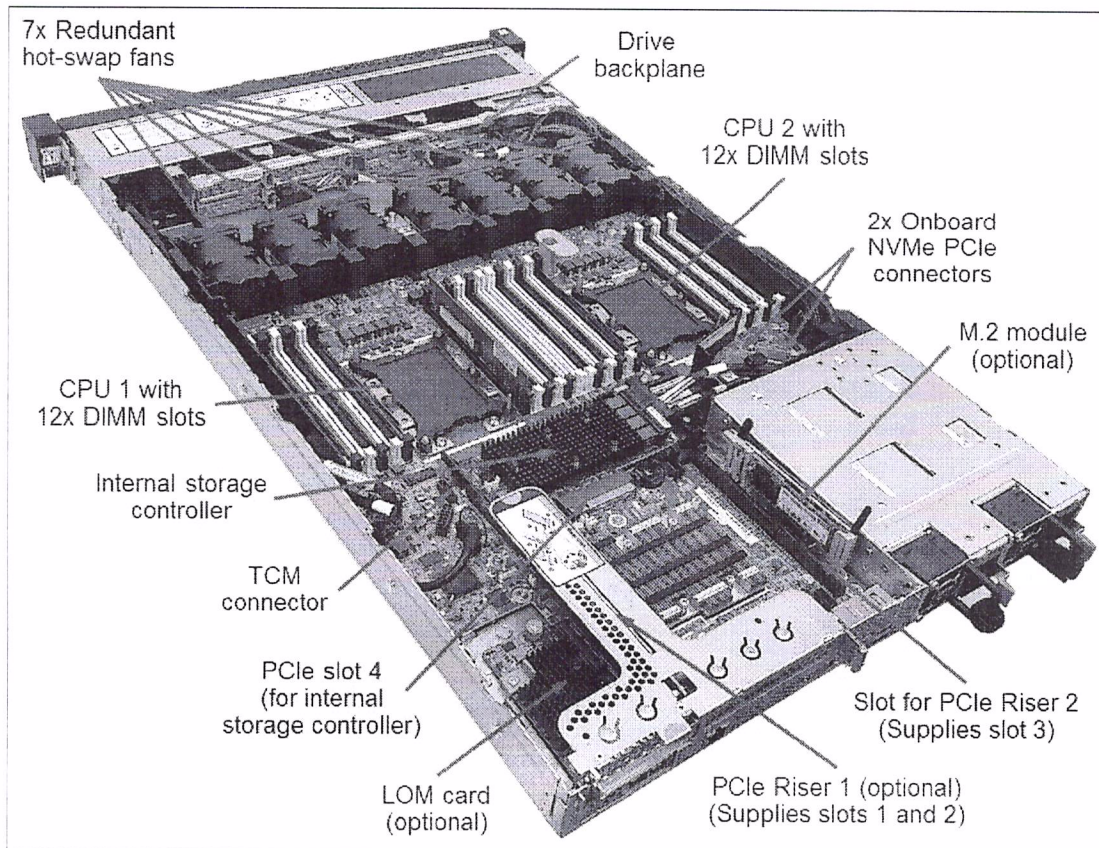
Figure 6. Internal view of the SR630

The following key components are located inside the SR630 server:

- Up to two processors.
- 24 DIMM slots (12 DIMM slots per processor).
- Drive backplanes.
- Two onboard NVMe PCIe connectors.
- One M.2 module connector.
- One LOM card connector.
- One onboard PCIe slot 4.
- Two slots for PCIe riser cards.
- One TCM connector.
- Five (one processor) or seven (two processors) hot-swap system fans.

System specifications

The following table lists the system specifications for the SR630 server.

Table 1. SR630 system specifications

Attribute	Specification
Machine types	7X01 - 1 year warranty 7X02 - 3 year warranty
Form factor	1U rack-mount

Attribute	Specification
Processor	Up to two 2nd Gen Intel Xeon Bronze, Silver, Gold, or Platinum processors: • Up to 28 cores (2.7 GHz core speeds). • Up to 3.8 GHz core speeds (4 cores). • UPI links up to 10.4 GT/s (2 UPI links used). • Up to 38.5 MB cache. • Up to 2933 MHz memory speed. 1st Gen Intel Xeon processors are also supported.
Chipset	Intel C624
Memory	Up to 24 DIMM sockets (12 DIMMs per processor; six memory channels per processor with two DIMMs per channel). Support for RDIMMs, LRDIMMs (1st Gen processors only), or 3DS RDIMMs. Memory speed up to 2933 MHz depending on the processor selected. Memory types cannot be intermixed.
Persistent memory	Up to 12x TruDDR4 2666 MHz DCPMMs in the DIMM slots. Not supported with 1st Gen Intel Xeon SP processors.

Memory capacity	• Memory DIMMs only: Up to 3 TB with up to 24x 128 GB 3DS RDIMMs (Up to 1.5 TB per processor).
	
	• Memory DIMMs and persistent memory modules:
	   ○ App Direct Mode: Up to 7.5 TB with up to 12x 128 GB 3DS RDIMMs and up to 12x 512 GB DCPMMs (Up to 3.75 TB per processor).
	
	   ○ Memory Mode: Up to 6 TB with up to 12x 512 GB DCPMMs (Up to 3 TB per processor).
	
	Note: Server configurations with more than 1 TB of memory capacity per socket (including DCPMMs and RDIMMs or 3DS RDIMMs) require processors that support up to 4.5 TB (L-suffix) per socket.

Memory protection	• Processor's integrated memory controllers: Error correction code (ECC), SDDC (for x4-based memory DIMMs), ADDDC (for x4-based memory DIMMs, requires Intel Xeon Gold or Platinum processors), memory mirroring, memory rank sparing, patrol scrubbing, and demand scrubbing. • DCPMM's onboard memory controllers: ECC, SDDC, DDDC, patrol scrubbing, and demand scrubbing. **Note:** In the configurations with DCPMMs, memory mirroring is supported only in the App Direct mode (other DCPMM modes do not support memory mirroring) and applies only to the RDIMMs or 3DS RDIMMs (DCPMMs are not mirrored). Memory sparing is not supported in the configurations with DCPMMs.
Drive bays	• Up to 6 SAS/SATA hot-swap drive bays: 4x 3.5" (front) + 2x 2.5" (rear) • 4 LFF AnyBay hot-swap drive bays: 4x 3.5" (front) • Up to 10 SFF SAS/SATA hot-swap drive bays: 8x 2.5" (front) + 2x 2.5" (rear) • Up to 12 SFF hot-swap drive bays: 6x 2.5" SAS/SATA & 4x 2.5" AnyBay (front) + 2x 2.5" SAS/SATA (rear) • 10 SFF U.2 NVMe PCIe SSD hot-swap drive bays

Attribute	Specification

Internal storage capacity	• 2.5-inch drives:
	   o 184.32TB using 12x 15.36TB 2.5-inch SAS/SATA SSDs
	   o 153.6TB using 10x 15.36TB 2.5-inch NVMe SSDs
	   o 28.8TB using 12x 2.4TB 2.5-inch HDDs
	
	• 3.5-inch drives:
	   o 72TB using 4x 18TB 3.5-inch HDDs
	   o 30.72TB using 4x 7.68TB 3.5-inch SAS/SATA SSDs
	   o 30.72TB using 4x 7.68TB 3.5-inch NVMe SSDs

Storage controller	• 6 Gb Onboard SATA AHCI • 6 Gb Onboard SATA RAID (Intel RSTe) • 12 Gb SAS/SATA RAID adapters with up to 8GB flash-backed cache • 12 Gb SAS/SATA HBA (non-RAID) • Onboard PCIe NVMe (with Intel VROC NVMe RAID support for Intel SSDs and optionally non-Intel SSDs) • NVMe Switch Adapters (with Intel VROC NVMe RAID support for Intel SSDs and optionally non-Intel SSDs)
Optical drive bays	None. Support for an external USB DVD RW Optical Disk Drive (SeeOptical drives).

Network interfaces	• Onboard LOM slot for up to 4x 1/10 Gb Ethernet ports:
	   o 2x or 4x 1 GbE RJ-45 ports (no 10/100 Mb support)
	   o 2x or 4x 10 GbE RJ-45 ports (no 10/100 Mb support)
	   o 2x or 4x 10 GbE SFP+ ports (no 10/100 Mb support)
	
	• Optional Mezzanine LOM (ML2) slot for dual-port 10 GbE cards with SFP+ or RJ-45 connectors or single- or dual-port 25 GbE cards with SFP28 connectors.
	
	• 1x RJ-45 10/100/1000 Mb Ethernet systems management port.

I/O expansion slots	Up to four slots. Slot 4 is the fixed slot on the system planar, and the remaining slots depend on the riser cards installed. The slots are as follows: • Slot 1: PCIe 3.0 x8, ML2 x8, or ML2 x16; low profile • Slot 2: PCIe 3.0 x16 or x8; low profile or full-height, half-length • Slot 3: PCIe 3.0 x16; low profile • Slot 4: PCIe 3.0 x8 (dedicated to an internal storage controller) Slot 3 requires the second processor to be installed.
Ports	• Front: 1x USB 2.0 port with XClarity Controller access and 1x USB 3.0 port; optional 1x VGA port. • Rear: 2x USB 3.0 ports and 1x VGA port. Optional 1x DB-9 serial port.
Cooling	Five (one processor) or seven (two processors) hot-swap dual-rotor system fans with N+1 redundancy.
Power supply	Up to two redundant hot-swap 550 W, 750 W, or 1100 W (100 - 240 V) High Efficiency Platinum, or 750 W (200 - 240 V) High Efficiency Titanium AC power supplies. HVDC support (PRC only).
Video	Matrox G200e with 16 MB memory integrated into the XClarity Controller. Maximum resolution is 1920x1200 at 60 Hz with 32 bits per pixel.
Hot-swap parts	Drives, power supplies, and fans.
Systems management	XClarity Controller (XCC) Standard, Advanced, or Enterprise (Pilot 4 chip), proactive platform alerts, light path diagnostics, XClarity Provisioning Manager, XClarity Essentials, XClarity Administrator, XClarity Integrators for VMware vCenter and Microsoft System Center, XClarity Energy Manager, Capacity Planner.

Attribute	Specification
Security features	Power-on password, administrator's password, secure firmware updates, Trusted Platform Module (TPM) 1.2 or 2.0 (configurable UEFI setting). Optional lockable front bezel. Optional Trusted Cryptographic Module (TCM) or Nationz TPM (available only in PRC). Optional Lenovo Business Vantage security software (available only in PRC).
Operating systems	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi. See the Operating systems section for specifics.
Warranty	One-year (Machine Type 7X01) or three-year (Machine Type 7X02) customer-replaceable unit (CRU) and onsite limited warranty with 9x5 Next Business Day Parts Delivered.
Service and support	Optional service upgrades are available through Lenovo Services: 2-hour or 4-hour response time, 6-hour or 24-hour committed service repair (select areas), warranty extension up to 5 years, 1-year or 2-year post-warranty extensions, YourDrive Your Data, Enterprise Software Support, and Basic Hardware Installation Services.
Dimensions	Width: 435 mm (17.1 in.), height: 43 mm (1.7 in.), depth: 750 mm (29.5 in.). See Physical specifications for details.
Weight	Minimum configuration: 11.9 kg (26.2 lb), maximum: 18.8 kg (41.4 lb)

Models

ThinkSystem SR630 models can be configured by using the Lenovo Data Center Solution Configurator (DCSC).

Configure-to-order (CTO) models are used to create models with factory-integrated server customizations. For CTO models, two base CTO models are available for the SR630 as listed in the following table, CTO1WW and CTOLWW:

- The CTO1WW base CTO model is for general business and is selectable by choosing **General Purpose** mode in DCSC.
- The CTOLWW base model is intended for High Performance Computing (HPC) and Artificial Intelligence (AI) configurations and solutions, including configurations for Lenovo Scalable Infrastructure (LeSI), and is enabled using either the **HPC & AI LeSI Solutions** mode or **HPC & AI ThinkSystem Hardware** mode in DCSC. CTOLWW configurations can also be built using System x and Cluster Solutions Configurator (x-config).

Preconfigured server models may also be available for the SR630, 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 SR630 server.

Table 2. Base CTO models

Description	Machine Type/Model General purpose	Machine Type/Model for HPC and AI
ThinkSystem SR630 - 3 year Warranty	7X02CTO1WW	7X02CTOLWW
ThinkSystem SR630 - 1 year Warranty	7X01CTO1WW	7X01CTOLWW

For CTO orders, the following table lists the base chassis feature codes for the server.

There are currently two base feature codes for each of the 2.5-inch and 3.5-inch chassis. The "v2" bases include the new SR570 Air Duct Kit v2 which is required if a RAID 9350 adapter is to be configured. See the RAID flash power module (supercap) support section for details. The non-v2 bases can be selected if any other RAID adapter or HBA is selected.

Table 3. Base chassis for CTO models

Feature code	Description
Base feature codes - suitable for all configurations except those with a RAID 9350 adapter	
AUW0	ThinkSystem SR630 2.5" Chassis with 8 Bays
AUW1	ThinkSystem SR630 2.5" Chassis with 10 Bays
AUW2	ThinkSystem SR630 3.5" Chassis with 4 Bays
Base feature codes - suitable for all configurations including ones with a RAID 9350 adapter (includes the SR630 Air Duct Kit v2)	
BNPP	ThinkSystem SR630 2.5" Chassis with 8 Bays v2
BNPN	ThinkSystem SR630 2.5" Chassis with 10 Bays v2
BNPQ	ThinkSystem SR630 3.5" Chassis with 4 Bays v2

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 region
- 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.

Common to all models:

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

Models for Australia and New Zealand

Table 4. Models for Australia and New Zealand

Model	Intel Xeon Scalable processor†	Memory	RAID	Front drive bays and drives	LOM	Rear Slots	Power supply	Front VGA	XCC	Rail kit
TopSeller models with a 3-year warranty (machine type 7X02)										
7X02A0BSAU	1x Bronze 3204 6C 85W 1.9G	1x 16GB 2Rx8 2933	530-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BTAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	530-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BXAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0HHAU	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	Option	Option 2.5"/8, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BPAU	1x Silver 4210 10C 85W 2.2G	1x 16GB 2Rx8 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BQAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	530-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BRAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BYAU	1x Silver 4210 10C 85W 2.2G	1x 16GB 2Rx8 2933	530-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0HJAU	1x Silver 4210 10C 85W 2.2G	1x 32GB 2933	Option	Option 2.5"/8, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0F2AU	1x Silver 4214 12C 85W 2.2G	1x 16GB 2Rx8 2666	730-8i 2GB	8x 2.5" SAS, Open bay	Open	Open	1x 750W	Opt	Ent	Slide CMA
7X02A0F3AU	1x Silver 4214 12C 85W 2.2G	1x 16GB 2Rx8 2666	930-8i	8x 2.5" SAS, Open bay	Open	Open	1x 750W	Opt	Ent	Slide CMA
7X02A0BNAU	1x Silver 4215 8C 85W 2.5G	1x 16GB 2Rx8 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0C0AU	1x Silver 4215 8C 85W 2.5G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0FYAU	1x Silver 4215R 8C 130W 3.2G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	Open	1x 750W	Yes	Ent	Slide
7X02A0BVAU	1x Silver 4216 16C 100W 2.1G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BZAU	1x Silver 4216 16C 100W 2.1G	1x 16GB 2Rx8 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0FWAU	1x Silver 4216 16C 100W 2.1G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	Open	1x 750W	Yes	Ent	Slide
7X02A0BWAU	1x Gold 5217 8C 115W 3.0G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0BUAU	1x Gold 5218 16C 125W 2.3G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA
7X02A0FVAU	1x Gold 6226R 16C 150W 2.9G	1x 64GB 2933	Option	Option 2.5"/8, Open bay	Open	Open	1x 750W	Yes	Ent	Slide
7X02A0FXAU	1x Gold 6226R 16C 150W 2.9G	1x 32GB 2933	930-8i	8x 2.5" SAS, Open bay	Open	Open	1x 750W	Yes	Ent	Slide
7X02A0FZAU	1x Gold 6226R 16C 150W 2.9G	1x 32GB 2933	Option	Option 2.5"/8, Open bay	Open	Open	1x 750W	Yes	Ent	Slide
7X02A0HKAU	1x Gold 6226R 16C 150W 2.9G	1x 32GB 2933	Option	Option 2.5"/8, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Ent	Slide CMA

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

Models for South East Asian countries (ASEAN)

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

Model	Intel Xeon Scalable processor†	Memory	RAID	Front drive bays and drives	LOM	Rear Slots	Power supply	Front VGA	XCC	Rail kit
TopSeller models with a 3-year warranty (machine type 7X02)										
7X02A09DSG	1x Bronze 3204 6C 85W 1.9G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A0ACSG	1x Bronze 3204 6C 85W 1.9G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08CSG	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08KSG	1x Silver 4208 8C 85W 2.1G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A087SG	1x Silver 4210 10C 85W 2.2G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A095SG	1x Silver 4210 10C 85W 2.2G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08PSG	1x Silver 4214 12C 85W 2.2G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A09WSG	1x Silver 4214 12C 85W 2.2G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08ESG	1x Silver 4215 8C 85W 2.5G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A0B2SG	1x Silver 4215 8C 85W 2.5G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A0A5SG	1x Silver 4216 16C 100W 2.1G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A0AZSG	1x Silver 4216 16C 100W 2.1G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08USG	1x Gold 5215 10C 85W 2.5G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A09VSG	1x Gold 5215 10C 85W 2.5G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A07ZSG	1x Gold 5217 8C 115W 3.0G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08TSG	1x Gold 5217 8C 115W 3.0G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A099SG	1x Gold 5218 16C 125W 2.3G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A09XSG	1x Gold 5218 16C 125W 2.3G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08QSG	1x Gold 5220 18C 125W 2.2G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A0AUSG	1x Gold 5220 18C 125W 2.2G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08FSG	1x Gold 6230 20C 125W 2.1G	1x 16GB 2Rx8 2933	930-8i	4x 3.5" SAS, Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A08HSG	1x Gold 6230 20C 125W 2.1G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt
7X02A0AYSG	1x Gold 6240 18C 150W 2.6G	1x 16GB 2Rx8 2933	930-16i 4GB	10x 2.5" (6xSAS + 4xAny), Open bay	Open	x8 LP, x16 LP	1x 750W	Opt	Std	Opt