Lenovo ThinkSystem SR630

Built for business-critical versatility



Highly Versatile

Featuring the largest storage capacity and highest performance in Lenovo's 1U server portfolio, Lenovo ThinkSystem SR630 excels at many workloads. With a wide selection of processors, drives, and interconnects, it helps you: 1) transform resources into services, using validated designs for hybrid cloud; 2) perform analytics on streaming data, using validated designs for Big Data; 3) improve performance of virtualized transactional systems, using validated designs for OLTP databases; or 4) simplify storage scale-out, using configuration guides for hyperconverged infrastructure (HCI) or software-defined storage (SDS).

Highly Flexible

ThinkSystem SR630 includes two powerful Intel® Xeon® processor Scalable family CPUs with 27 percent more cores, twice the memory capacity and 50 percent more bandwidth than the prior generation*. It has up to four§ PCIe 3.0 slots for I/O flexibility. Unique Lenovo AnyBay technology provides optimized storage flexibility and performance, with up to 12 SFF or 4 LFF SAS/SATA HDDs/SSDs. Four direct-connect NVMe ports on the motherboard provide ultra-fast read/writes with NVMe drives and reduce costs by eliminating PCIe switch adapters. Plus, storage can be tiered for greater application performance, to provide the most cost-effective solution. Optional mirrored M.2 boot drives ensure reliability and quick OS initialization. SR630 also supports modular LOM, ML2, and PCIe network adapters. To reduce energy costs, it features 80 PLUS Platinum and Titanium PSUs, and continuous operation at 45°C.

Easily Managed

Lenovo XClarity Controller is an all-new hardware embedded management engine common in every ThinkSystem server. XClarity Controller features an uncluttered graphical user interface, industry standard Redfish-compliant REST APIs, and enables booting in half the time of prior generation servers, with up to 6x faster firmware updates.

Lenovo XClarity Administrator is a virtualized application that centrally manages ThinkSystem servers, storage, and networking. Via reusable patterns and policies, it ramps up and scales infrastructure provisioning and maintenance. It serves as a central integration point to extend your data center management processes to physical IT. Running XClarity Integrators in external IT applications, or integrating through REST APIs, helps you further speed services provisioning, streamline IT management, and contain costs.

Lenovo servers continue to be the industry's #1 most reliable‡, with the industry's highest customer satisfaction** rating.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

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ThinkSystem

intel XEON PLATINUM inside

Specifications

Form Factor/Height	1U rack server
Number of Processors	Up to 2x Intel® Xeon® Platinum processors, up to 205W
Memory	Up to 3TB† in 24x slots, using 128GB† DIMMs; 2666MHz TruDDR4
Expansion Slots (max)	Up to 4x PCIe 3.0 slots (with two CPUs), incl. 1x dedicated PCIe for RAID adapter
Drive Bays	Up to 12 bays (incl. 4x AnyBay): LFF: 4x HS SAS/SATA; SFF: 4x HS AnyBay + 6x HS SAS/SATA + 2x rear; or 8x HS SAS/SATA; **plus** up to 2x mirrored M.2 boot
HBA/RAID Support	Hardware RAID (up to 16 ports) with flash cache; up to 16-port HBAs
Security and Availability	TPM 1.2/2.0; PFA; HS/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front-access diagnostics via dedicated USB port
Network Interface	2/4-port 1GbE LOM; 2/4-port 10GbE LOM with Base-T or SFP+; 1x dedicated 1GbE management port
Power	2x hot-swap/redundant: 550W/750W/1100W AC 80 PLUS Platinum; or 750W AC 80 PLUS Titanium
Systems Management	XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management
OSes Supported	Microsoft Windows Server, SLES, RHEL, VMware vSphere. Visit lenovopress.com/osig for more information.
Limited Warranty	1- and 3-year customer replaceable unit and onsite service, next business day 9x5; opt. service upgrades

* Compared to the Lenovo x3550 M5.; § One slot is dedicated for a RAID adapter.; ‡ 2016-2017 Global Hardware, Server OS Reliability Report, ITIC; October 2016.
** 2H16 Corporate IT Buying Behavior and Customer Satisfaction Study, TBR; December 2016. † 1.5TB at GA; 128GB DIMMs available in the near future. Available prior to GA via special bid.

Featured Options

M.2 128GB SATA 6Gbps Non-Hot-Swap SSD	10Gb 2-port SFP+ LOM	2.5-inch 7.68TB SAS 12Gb Hot-Swap SSD
7N47A00130	**7ZT7A00546**	**7N47A00122**
Boot drive. Better performance and reliability than USB key or SD card; lower cost than HDDs	Low-cost Intel LOM available for 1Gb, 10Gb, SFP+, and RJ45 connectivity	High-performance, reliable storage solution for read-intensive, high-capacity enterprise applications

Visit Options for more information.

For More Information

To learn more about the Lenovo ThinkSystem SR630, contact your Lenovo representative or Business Partner or visit **www.lenovo.com/thinksystem**. For detailed specs, consult the SR630 Product Guide.

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