

Lenovo ThinkSystem SR650 V3 - rack-mountable Xeon Silver 4509Y 2.6 GHz - 32 GB - no HDD (7D76A05TEA)

Lenovo ThinkSystem SR650 V3 7D76 - Server - rack-mountable 2U - 2-way - 1 x Xeon Silver 4509Y / up to 4.1 GHz - RAM 32 GB - SAS - hot-swap 2.5" bay(s) - no HDD - AST2600 - no OS - monitor: none



The Lenovo ThinkSystem SR650 V3 is a rack-mountable server that combines performance, scalability, and security into a single package. Designed for businesses looking for a reliable server solution, it features an Intel Xeon Silver processor with the capability to add another, meeting the needs of growing businesses. With 32 DIMM slots available for DDR5 SDRAM, it offers ample memory, which is crucial for applications requiring high-speed data processing.

Environmental sustainability is at the forefront of its design, evidenced by its EPEAT Bronze compliance. This server is not only powerful but also eco-friendly, aligning with the green initiatives of modern enterprises. Security is another pillar of the Lenovo ThinkSystem SR650 V3, featuring a Trusted Platform Module (TPM 2.0) security chip to safeguard data against unauthorized access.

Its robust connectivity options, including multiple USB ports and VGA interfaces, ensure seamless integration with existing infrastructure. The hot-plug power supply feature, with support for an additional power supply, ensures uninterrupted operation, making it an ideal choice for businesses requiring a dependable and secure server solution.

Key Selling Points

- Supports dual Intel Xeon Silver processors for enhanced performance
- 32 DIMM slots for DDR5 SDRAM, supporting memory mirroring and registered features
- Comprehensive compliance with global safety and environmental standards
- Trusted Platform Module (TPM 2.0) for secure operations
- Hot-plug power supply with dual support for continuous power

Product Features

- Eco-friendly design**
With EPEAT Bronze compliance, the Lenovo ThinkSystem SR650 V3 demonstrates a commitment to environmental sustainability. This server is designed for organizations that prioritize eco-friendly technology solutions.
- Robust security**
Featuring a Trusted Platform Module (TPM 2.0) security chip, this server ensures data integrity and protection against unauthorized access, making it an ideal choice for sensitive and critical applications.
- High scalability**
Server scalability is a breeze with support for up to 2 Intel Xeon Silver processors and 32 DIMM slots for DDR5 SDRAM, allowing for significant expansion as your business grows.
- Advanced connectivity**
Equipped with multiple USB 3.2 Gen 1 and USB 2.0 ports, along with VGA and management interfaces, this server offers versatile connectivity options for a wide range of peripherals and devices.
- Efficient power management**
The hot-plug power supply feature, coupled with support for dual power supplies, ensures uninterrupted power and improved energy efficiency, crucial for maintaining 24/7 operations.

Main Specifications

Product Description	Lenovo ThinkSystem SR650 V3 - rack-mountable Xeon Silver 4509Y 2.6 GHz - 32 GB - no HDD
Type	Server - rack-mountable
Height (Rack Units)	2U
Localisation	Region: EMEA
Server Scalability	2-way
Processor	1 x Intel Xeon Silver 4509Y / 2.6 GHz (up to 4.1 GHz, (8-core)
Cache Memory	22.5 MB L3 Cache

Cache Per Processor	22.5 MB
RAM	32 GB (installed) / 8 TB (max) - DDR5 SDRAM - ECC
Storage Controller	RAID (SATA 6Gb/s / SAS 12Gb/s) - PCIe 4.0 x8 (ThinkSystem RAID 940-8i)
Server Storage Bays	Hot-swap 2.5"
Hard Drive	No HDD
Optical Storage	No optical drive
Graphics Controller	ASPEED AST2600
Video Memory	16 MB
Power	(50/60 Hz)
Power Redundancy	Optional
OS Provided	No operating system
Dimensions (WxDxH)	44.5 cm x 76.6 cm x 8.7 cm
Weight	38.8 kg
Environmental Standards	ENERGY STAR Qualified EPEAT Bronze
Carbon Footprint	9957 kg carbon emissions
Manufacturer Warranty	Limited warranty - 3 years - on-site - response time: next business day

Extended Specification

General

Type	Server
Product Form Factor	Rack-mountable - 2U
Built-in Devices	5 x fans
Embedded Security	Trusted Platform Module (TPM 2.0) Security Chip
Server Scalability	2-way
Hot-Swap Bays Qty	8
Localisation	Region: EMEA

Expansion / Connectivity

Bays	8 (total) / 8 (free) x hot-swap 2.5"
Slots	1 (total) / 1 (free) x PCIe 4.0 x16 2 (total) / 2 (free) x PCIe 4.0 x8
Interfaces	5 x USB 3.2 Gen 1 (1 front, 3 rear, 1 internal) 1 x USB 2.0 (1 in front) 1 x VGA (1 rear) 1 x management - RJ-45

Manufacturer Warranty

Service & Support	Limited warranty - 3 years - on-site - response time: next business day
-------------------	---

RAM

Installed Size	32 GB (installed) / 8 TB (max)
Technology	DDR5 SDRAM - ECC
Effective Memory Speed	2200 MHz
Rated Memory Speed	2200 MHz
Form Factor	DIMM 288-pin
Slots	32 (Total) / 31 (empty)
Features	Registered, Memory Mirroring, slots 17 - 32 are available in two-processor configuration only
Configuration Features	1 x 32 GB

Networking

Remote Management Protocol	SNMP 3, IPMI 2.0
Remote Management Controller	XClarity Controller 2 (XCC2) Platinum

Miscellaneous

Theft/Intrusion Protection	Chassis intrusion switch
Compliant Standards	FCC Class A certified, EN 61000-3-2, GS, EN55024, GB 17625.1, VCCI Class A, GB 4943.1, NOM-019, EK1-ITB2000, CNS 13438 Class A, KN35, AS/NZS CISPR 32 Class A, KN32 Class A, EN 62368-1, IEC 62368-1, CISPR 32 Class A, CISPR 35, TP TC 004/2011, TP TC 020/2011, HJ 2507-2011, CNS 15663, TP EAC 037/2016, AS/NZS 62368.1, ANSI/UL 62368-1, ICES-003 issue 7 Class A, GB/T9254, CQC3135, CSA C22.2 No. 62368-1, EN61000-3-3, EN55032 Class A, CNS14336-1, EN55035, EN50581-1 (RoHS), UL2819, BIS 13252 (Part 1)

Power

Device Type	Power supply - hot-plug
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Installed Qty	1
Max Supported Qty	2
Voltage Required	AC 100-240 V (50/60 Hz)
Power Provided	1100 Watt
80 PLUS Certification	80 PLUS Titanium

Storage Controller

Type	1 x RAID - PCIe 4.0 x8
Controller Interface Type	SATA 6Gb/s / SAS 12Gb/s
Storage Controller Name	ThinkSystem RAID 940-8i
Channel Qty	8
RAID Level	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID 50, JBOD, RAID 60
Buffer Size	4 GB

Cache Memory

Installed Size	L3 Cache - 22.5 MB
Cache Per Processor	22.5 MB

Optical Storage

Type	No optical drive
------	------------------

Operating System / Software

OS Provided	No operating system
-------------	---------------------

Monitor

Monitor Type	None.
--------------	-------

Graphics Controller

Graphics Processor	ASPEED AST2600
Video Memory	16 MB
Video Interfaces	VGA

Hard Drive

Type	No HDD
------	--------

Dimensions & Weight

Width	44.5 cm
Depth	76.6 cm

Height	8.7 cm
Weight	38.8 kg

Processor / Chipset

CPU	Intel Xeon Silver 4509Y
Clock Speed	2.6 GHz
Max Turbo Speed	4.1 GHz
Number of Cores	8-core
CPU Qty	1
Max CPU Qty	2
Chipset Type	Intel C741

Sustainability Information

EPEAT Compliant	EPEAT Bronze
ENERGY STAR Certified	Yes
ENERGY STAR Version	4.0
Carbon Footprint	9957 kg carbon emissions
Total CF/unit Standard Deviation (kg CO2e)	1863
PAIA Version	1.3.2

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet