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Lenovo ASISP32

Lenovo ThinkSystem SR630 Rack Server User Manual

Model: ASISP32 | Brand: Lenovo

1. INTRODUCTION

The Lenovo ThinkSystem SR630 is a reliable, easy-to-manage, and scalable 1U rack server designed to excel at running a wide range of applications for small businesses up to large enterprises. This manual provides essential information for the proper installation, operation, and maintenance of your SR630 server, ensuring optimal performance and longevity.



Figure 1.1: Lenovo ThinkSystem SR630 Rack Server Bundle Overview

This bundle includes the Lenovo ThinkSystem SR630 server, a rail kit for easy rack installation, and the Windows Server 2019 Standard operating system. Hard drives and memory upgrades are included separately and require installation.

2. KEY FEATURES

- **High Performance:** Equipped with Dual (2) Intel Xeon Silver 4110 8-Core 2.10GHz processors, capable of up to 3.2GHz turbo frequency.
- **Ample Memory:** Features 128GB DDR4 PC4-21300 2666MHz Registered Memory for speed, quality, and reliability.
- **Robust Storage:** Includes 8TB (4 x 2TB) 6Gb/s SATA III Solid State Drives for ultra-fast data access and storage.
- **Data Protection:** Integrated 12Gbps SAS/6Gbps SATA RAID Controller supporting RAID 0, 1, 10, 5, 50 for data safety.
- **Comprehensive Connectivity:** Provides VGA, 3 x USB 3.0, 1 x USB 2.0 ports, and 4 x 1GbE network ports with a dedicated management port.
- **Operating System:** Pre-bundled with Windows Server 2019 Standard (Retail) for immediate deployment.

3. WHAT'S IN THE BOX

Verify that all components are present and undamaged upon unpacking:

- Lenovo ThinkSystem SR630 Rack Server Unit
- Lenovo Rail Kit for SR630 Servers
- Windows Server 2019 Standard (Retail) Operating System
- Hard drives (4 x 2TB SSD)
- Memory modules (128GB DDR4)
- Power Cable(s)
- Documentation (this manual, safety information)

Note: Hard drives and memory upgrades are included separately and require installation into the server chassis.

4. SETUP AND INSTALLATION

4.1 Rack Installation

The SR630 server is designed for 1U rack mounting. Use the included rail kit for secure installation into a standard 19-inch server rack.



Figure 4.1: Lenovo ThinkSystem SR630 Rail Kit

1. **Attach Rail Assemblies:** Secure the inner and outer rail assemblies to the server and the rack posts, respectively, following the instructions provided with the rail kit.
2. **Mount Server:** Slide the server onto the mounted rails until it clicks into place. Secure the server to the rack using the front thumbscrews or latches.

4.2 Component Installation (Drives and Memory)

The SSDs and memory modules are provided separately and must be installed before initial power-on.



Figure 4.2: Front Panel of Lenovo ThinkSystem SR630

1. **Install SSDs:** Insert the 2TB SSDs into the available 2.5-inch drive bays on the front of the server. Ensure they are

securely latched.

2. **Install Memory:** Open the server chassis cover. Locate the DIMM slots on the motherboard. Carefully insert the 128GB DDR4 memory modules into the designated slots, ensuring the clips on both ends snap into place. Refer to the server's internal diagram for correct slot population order.
3. **Close Chassis:** Securely close the server chassis cover.

4.3 Cable Connections

1. **Power:** Connect the power cable(s) to the server's power supply unit(s) and to a grounded power outlet or PDU.
2. **Network:** Connect Ethernet cables to the 1GbE network ports for network connectivity. Connect the dedicated management port for remote management.
3. **Peripherals:** Connect a monitor to the VGA port, and a keyboard/mouse to the USB ports if direct console access is required.

4.4 Operating System Installation

The Windows Server 2019 Standard operating system is included. Follow Microsoft's installation guidelines to install and configure the OS on your server's SSDs. Ensure all necessary drivers are installed for optimal hardware performance.

5. OPERATING THE SERVER

5.1 Power On/Off

- **Power On:** Press the power button on the front panel of the server.
- **Normal Shutdown:** Initiate a graceful shutdown through the operating system.
- **Forced Shutdown:** Press and hold the power button for 5 seconds. Use only when a graceful shutdown is not possible.

5.2 Remote Management

The SR630 features a dedicated management port for remote access via the integrated management module (IMM). This allows for remote power control, KVM over IP, and system monitoring.

1. Connect the dedicated management port to your network.
2. Obtain the IP address assigned to the IMM (via BIOS or network tools).
3. Access the IMM web interface via a web browser using the assigned IP address.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your server.

- **Dust Removal:** Periodically clean dust from air vents and internal components using compressed air. Ensure the server is powered off and unplugged before cleaning.
- **Firmware Updates:** Regularly check the Lenovo support website for the latest firmware updates for BIOS, RAID controller, and other components. Apply updates as recommended.
- **Software Updates:** Keep your Windows Server 2019 operating system and all installed software up to date with the latest security patches and feature updates.
- **Component Checks:** Periodically inspect cables for secure connections and check for any unusual noises or smells from the server.

7. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues.

Problem	Possible Cause	Solution
Server does not power on	No power, faulty power supply, loose connection	Check power cable connections. Verify power outlet. Test with a different power cable.
No display output	Monitor not connected, faulty VGA cable, graphics issue	Ensure monitor is connected and powered on. Try a different VGA cable or monitor.
Operating system not booting	OS corruption, boot order issue, drive failure	Check BIOS boot order. Run OS repair tools. Verify drive status in RAID controller BIOS.
Network connectivity issues	Loose cable, incorrect IP settings, faulty network adapter	Check Ethernet cable connections. Verify network settings in OS. Test with a different network port.

For more complex issues, consult the Lenovo support website or contact technical support.

8. SPECIFICATIONS

Detailed technical specifications for the Lenovo ThinkSystem SR630 Rack Server (ASISP32 configuration):

Feature	Specification
Form Factor	1U Rack Mount Server with 8 x 2.5 Inch Drive Bays
Processor	Dual (2) Intel Xeon Silver 4110 8-Core 2.10GHz (Up To 3.2GHz Turbo)
Memory (RAM)	128GB DDR4 PC4-21300 2666MHz Registered Memory
Storage (SSD)	8TB (4 x 2TB) 6Gb/s SATA III Solid State Drives
RAID Controller	12Gbps SAS/6Gbps SATA RAID Controller (Supports RAID 0, 1, 10, 5, 50)
Graphics	Matrox G200 16MB Graphics Card
Connectivity	VGA; 3 x USB 3.0; 1 x USB 2.0
Network	4 x 1GbE ports standard; 1 x 1GbE dedicated management port
Power Supply	Single Power Supply
Operating System	Windows Server 2019 Standard (Retail)
Item Weight	90 pounds
Product Dimensions	37 x 24 x 20 inches

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, and service options, please refer to the official Lenovo support website or the warranty documentation included with your product. You can also visit the Lenovo Store on Amazon for additional resources.

Lenovo provides comprehensive support resources, including drivers, firmware, documentation, and troubleshooting guides, to assist you with your ThinkSystem SR630 server.