

Amazon Renewed 6028R-E1CR24N

User Manual for Supermicro 6028R-E1CR24N Server

24 Bay LFF 2U Server with Flex Bays

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of the Supermicro 6028R-E1CR24N 2U Rackmount Server. This server is designed for storage-intensive applications, featuring 24 LFF drive bays and dual processor support for high performance and reliability. Please read this manual thoroughly before operating the server to ensure proper usage and to prevent damage.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure the server is disconnected from all power sources before performing any installation, maintenance, or troubleshooting procedures.
- Use proper grounding techniques to prevent electrostatic discharge (ESD) when handling internal components.
- Do not operate the server in environments with excessive dust, humidity, or extreme temperatures.
- Ensure adequate ventilation around the server to prevent overheating.
- Only qualified personnel should perform service on this equipment.

3. SETUP

3.1 Unpacking and Inspection

Carefully unpack the server and its components. Inspect all items for any signs of shipping damage. If any damage is found, contact your vendor immediately.

3.2 Physical Installation (Rack Mounting)

The Supermicro 6028R-E1CR24N is a 2U rackmount server. Install it into a standard 19-inch server rack. Ensure the rack is stable and capable of supporting the server's weight. Rails are not included with this renewed unit and must be acquired separately if rack mounting is desired.

3.3 Component Installation

This server is configured with 2x E5-2690 V3 2.6GHz 12-Core CPUs and 256GB DDR4 Registered Memory. It includes 24 drive trays, but no drives are pre-installed. Follow these steps for drive installation:



Figure 3.3.1: Front view of the Supermicro 6028R-E1CR24N server, showcasing its 24 Large Form Factor (LFF) drive bays. Each bay is designed to accommodate a 3.5-inch hard drive or SSD, providing substantial storage capacity. The server also features two flex bays, visible on the right side, which can be used for additional storage or other modules.



Figure 3.3.2: Top-down internal view of the Supermicro 6028R-E1CR24N server. This image provides a clear look at the internal layout, including the motherboard, CPU heatsinks, RAM slots, and the drive bay backplane. Instructions for opening and closing the drive bays are printed on the top cover, indicating a user-friendly design for drive installation and removal.

- 1. Drive Installation:** Insert 3.5-inch LFF drives into the provided trays. Secure each drive with screws. Slide the tray into an empty drive bay until it clicks into place.
- 2. Flex Bay Usage:** The two flex bays can be configured for additional storage or other compatible modules as per your requirements.

3.4 Connectivity

Connect the necessary cables to the server's rear panel:

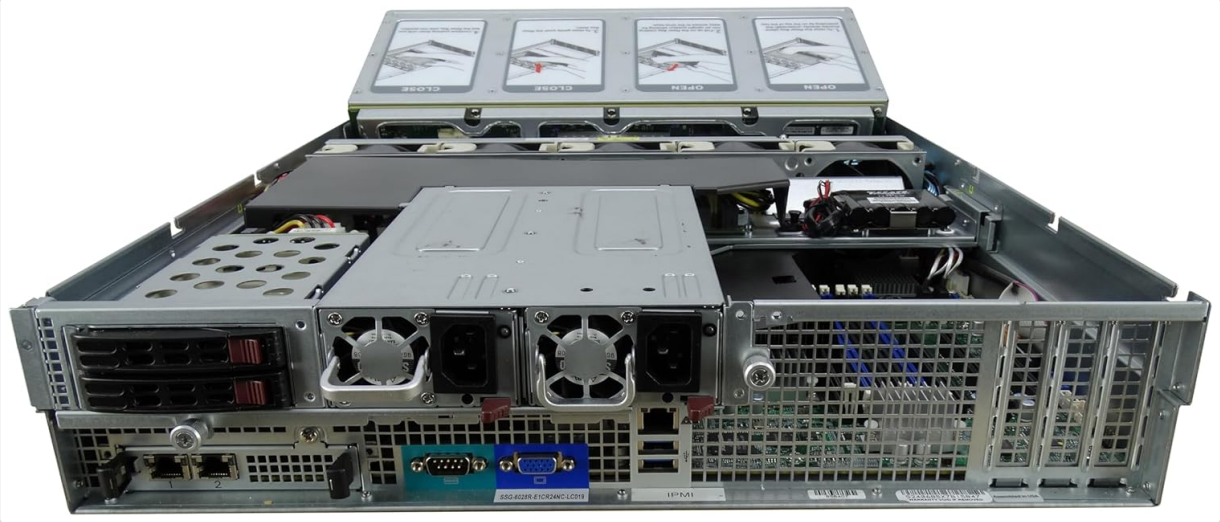


Figure 3.4.1: Rear view of the Supermicro 6028R-E1CR24N server. This perspective highlights the dual redundant 1000W power supplies on the left, ensuring continuous operation. Various I/O ports are visible, including network ports (SIOM 2-port 10G SFP+), USB ports, and a VGA port for display output. The IPMI port for remote management is also present, allowing for out-of-band control of the server.

- **Power Cables:** Connect the two 1000W power supplies to separate power outlets for redundancy.
- **Network Cables:** Connect Ethernet cables to the SIOM 2-port 10G SFP+ ports for network connectivity.
- **IPMI Port:** Connect a dedicated Ethernet cable to the IPMI port for remote management capabilities.
- **Peripherals:** Connect a monitor to the VGA port, and a keyboard/mouse to the USB ports for local access during initial setup.

4. OPERATING THE SERVER

4.1 Initial Power On

Once all connections are secure, press the power button on the front panel. Observe the system's boot process and LED indicators.

4.2 BIOS/UEFI Configuration

During boot, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Configure boot order, RAID settings (for the Supermicro S3108M-H8L controller), and other system parameters as needed.

4.3 Operating System Installation

Install your preferred operating system (e.g., Windows Server, Linux distribution, VMware ESXi) from a bootable USB drive or network source. Ensure all necessary drivers are installed for optimal performance.

4.4 IPMI Management

The server features IPMI for out-of-band management. Access the IPMI web interface via its assigned IP address to monitor system health, manage power, and perform remote KVM operations.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your server.

- **Cleaning:** Periodically clean dust from the server's exterior and internal components (fans, heatsinks) using compressed air. Ensure the server is powered off and unplugged before cleaning.
- **Firmware Updates:** Check the Supermicro website for the latest BIOS, IPMI, and controller firmware updates. Apply updates as recommended to improve stability and security.
- **Component Checks:** Regularly inspect cables, power supplies, and drive trays for secure connections and signs of wear.
- **Hot-Swappable Components:** Drives and power supplies are hot-swappable. Refer to the Supermicro documentation for safe replacement procedures.

6. TROUBLESHOOTING

This section provides solutions for common issues. For more complex problems, consult Supermicro's official support resources.

- **No Power:** Verify power cable connections to both the server and power outlets. Check power supply LEDs.
- **No Boot/POST Errors:** Listen for beep codes and observe diagnostic LEDs. Reseat RAM modules and expansion cards.
- **Network Connectivity Issues:** Check network cable connections, switch status, and network configuration in the operating system. Verify SIOM module status.
- **Drive Detection Problems:** Ensure drives are properly seated in their trays. Check RAID controller status and cable connections.

7. SPECIFICATIONS

Feature	Description
Model	Supermicro 6028R-E1CR24N
Form Factor	2U Rackmount
Processor	2x Intel Xeon E5-2690 V3 2.6GHz 12-Core
Memory	256GB (8x 32GB) DDR4 Registered Memory
Hard Drive Bays	24x LFF (3.5-inch) Hot-Swap Trays (No Drives Installed)
Flex Bays	2x Flex Bays
RAID Controller	Supermicro S3108M-H8L 12Gbps Internal RAID Mezzanine Card
Networking	SIOM 2-port 10G SFP+
Power Supply	2x Supermicro 1000W Redundant Power Supply
Management	IPMI
Rails	Not Included

8. WARRANTY AND SUPPORT




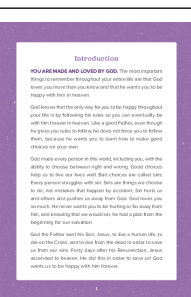

As an Amazon Renewed product, this server is backed by the Amazon Renewed Guarantee. This typically

provides a replacement or refund within 90 days of receipt if the product does not work as expected. For specific warranty details and support, please refer to the Amazon Renewed program terms and conditions or contact Amazon customer service.

For technical support related to the Supermicro hardware, drivers, or firmware, please visit the official Supermicro support website. You may need the server's serial number for assistance.

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Related Documents - 6028R-E1CR24N

	<p>JWIPC SYS-6028R-S08 2U 8-Bay High-Performance Server Specifications</p> <p>JWIPC SYS-6028R-S08 series server, based on Intel C612 chipset and Intel Xeon E5-1600 v3/v4, E5-2600 v3/v4 processors, offers high performance, reliability, and efficiency for data centers and enterprise applications. Features 8 DIMM slots, up to 1TB RAM, 8 hot-swappable drives, and multiple network options.</p>
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