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Supermicro SYS-1019C-FHTN8

Supermicro SYS-1019C-FHTN8 Server Instruction Manual

Model: SYS-1019C-FHTN8

1. INTRODUCTION

The Supermicro SYS-1019C-FHTN8 is a 1U rackmount server designed for demanding applications such as network security, uCPE network appliances, and virtualization. It supports Intel Xeon E-2100 Series Processors and features a front I/O design, accommodating two hot-swappable 2.5-inch drives and an additional two internal 2.5-inch drives. This server is equipped with eight Gigabit Ethernet LAN ports and a dedicated IPMI port for comprehensive remote management.

2. SETUP AND INSTALLATION

2.1 Unpacking and Inspection

Carefully remove the server from its packaging. Inspect the server for any signs of damage that may have occurred during shipping. Retain all packaging materials for future use or return if necessary.

2.2 Rack Mounting

The SYS-1019C-FHTN8 is a 1U rackmount server. Install the server into a standard 19-inch server rack using appropriate rack rails (sold separately or included). Ensure proper ventilation and cable management within the rack.

2.3 Component Installation

Before powering on the server, ensure all necessary components are installed. Refer to the following for guidance:

2.3.1 Drive Installation

The server supports two hot-swappable 2.5-inch drives accessible from the front panel and two additional internal 2.5-inch drives. For hot-swappable drives, slide the drive into the bay until it clicks into place. For internal drives, secure them within the chassis using the provided mounting hardware.



Figure 1: Front view of the SYS-1019C-FHTN8 server, highlighting the two hot-swappable 2.5-inch drive bays.

2.3.2 Memory Installation

The server features four DDR4 DIMM slots, supporting up to 128GB ECC UDIMM. Align the memory module with the slot key and press firmly until the retaining clips snap into place on both sides.

2.3.3 M.2 Installation

The server includes two M.2 22110 slots. Install M.2 storage devices by inserting them into the slot and securing them with the provided screw.



Figure 2: Internal view of the SYS-1019C-FHTN8 server, showing the motherboard layout, DIMM slots, and internal drive mounting points.

2.4 Connecting Peripherals

Connect the power cable to the server's power supply unit and a suitable power source. Connect network cables to the desired Gigabit Ethernet LAN ports. If local access is required, connect a display, keyboard, and mouse to the appropriate ports.

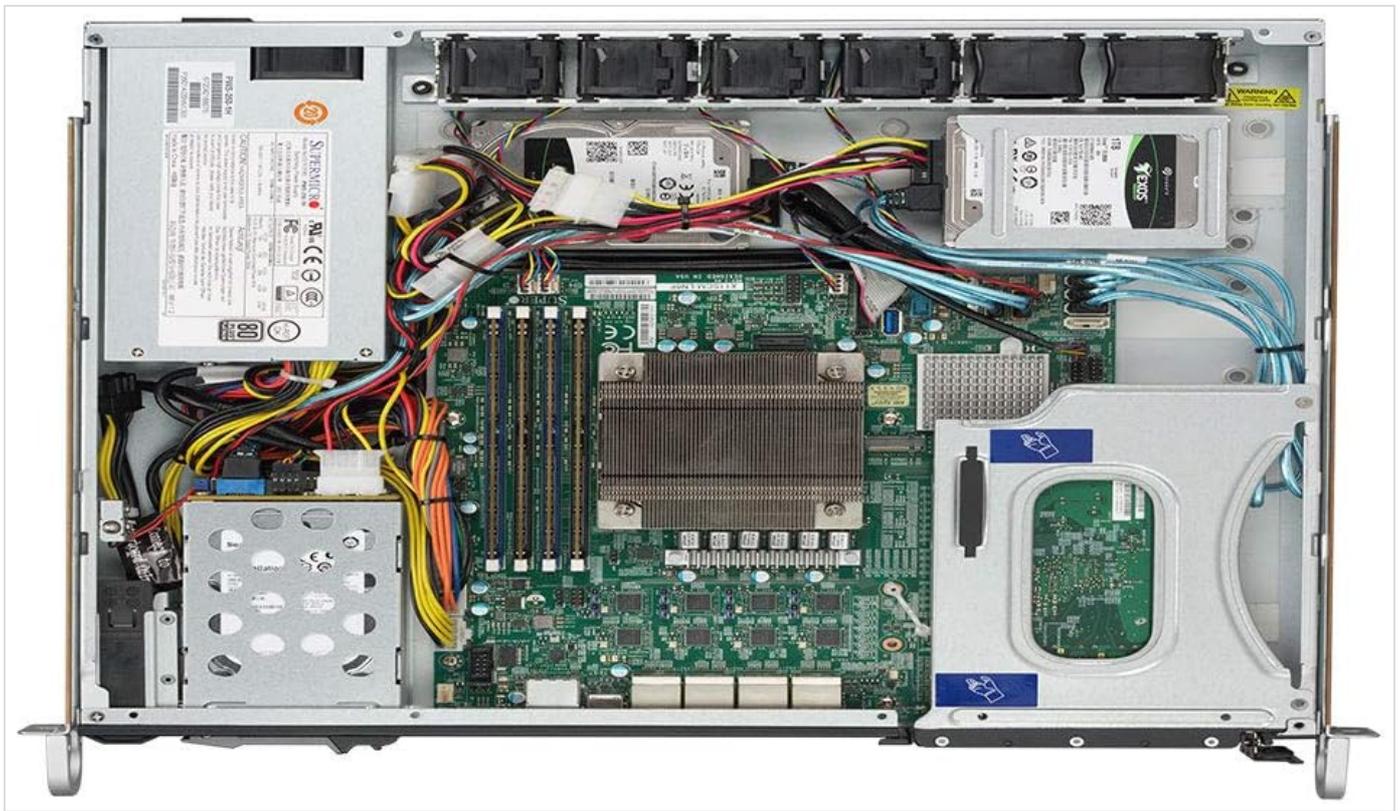


Figure 3: Rear view of the SYS-1019C-FHTN8 server, illustrating the eight Intel i210-AT GbE LAN ports, USB ports, VGA port, and the dedicated IPMI port.

2.5 Initial Power On

Press the power button on the front panel. Observe the system's boot process. Access the BIOS/UEFI setup utility by pressing the designated key (usually DEL or F2) during startup to configure boot options or other system settings.

3. OPERATING INSTRUCTIONS

3.1 Operating System Installation

Install your preferred operating system (e.g., Windows Server, Linux distribution, VMware ESXi) using a bootable USB drive, optical drive (if connected), or network installation via PXE boot.

3.2 Network Configuration

Configure the eight Intel i210-AT GbE LAN ports according to your network requirements. This may involve setting static IP addresses, configuring VLANs, or bonding interfaces for redundancy and increased throughput.

3.3 Remote Management (IPMI)

The dedicated IPMI port allows for out-of-band management of the server. Connect the IPMI port to your management network. Access the IPMI web interface via a web browser using the assigned IP address to monitor system health, manage power, and perform remote KVM functions.

4. MAINTENANCE

4.1 Regular Cleaning

Periodically clean the server's exterior and internal components to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to clear dust from fans and heatsinks. Ensure the server is powered off and disconnected from the power source before cleaning.

4.2 Firmware Updates

Regularly check the Supermicro website for updated BIOS, IPMI, and driver firmware. Keeping firmware up-to-date ensures optimal performance, stability, and security. Follow the manufacturer's instructions carefully when performing firmware updates.

4.3 Component Replacement

When replacing components such as drives, memory, or fans, ensure the server is powered off and properly grounded. Refer to the specific component's installation guide for detailed instructions. For hot-swappable drives, follow the operating system's procedure for safe removal and insertion.

4.4 Environmental Considerations

Operate the server within its specified environmental limits (temperature, humidity). Ensure adequate airflow around and through the server to prevent thermal issues. Avoid placing the server in direct sunlight or near heat sources.

5. TROUBLESHOOTING

5.1 No Power

- Verify the power cable is securely connected to both the server and the power outlet.
- Check the power supply unit (PSU) status LEDs.
- Test the power outlet with another device.

5.2 No Boot/Display

- Ensure the monitor is connected and powered on.
- Check memory modules are properly seated.
- Listen for POST (Power-On Self-Test) beep codes, which can indicate specific hardware issues.
- If using IPMI, check the remote console for boot messages.

5.3 Network Connectivity Issues

- Verify network cables are securely connected to the correct LAN ports.
- Check network adapter status LEDs on the server and the switch.
- Confirm network configuration (IP address, subnet mask, gateway) in the operating system.
- Ping other devices on the network to isolate the issue.

5.4 IPMI Access Problems

- Ensure the dedicated IPMI port is connected to the network.
- Verify the IPMI IP address and network settings are correctly configured.
- Check for firewall rules that might be blocking access to the IPMI port.

6. SPECIFICATIONS

Feature	Specification
Processor Support	Intel Xeon E-2100 Series Processor, LGA 1151
Chipset	Intel C246
Memory	4 x DDR4 DIMM slots; Up to 128GB ECC UDIMM

Feature	Specification
Drive Bays	2 x Hot-swap 2.5" Drive Bays (front), 2 x Internal 2.5" Drive Bays
M.2 Slots	2 x M.2 22110 slots
LAN Ports	8 x Intel i210-AT GbE LAN Ports
Management Port	1 x Dedicated IPMI LAN Port
USB Ports	2 x USB 2.0 Ports (rear)
Form Factor	1U Rackmount
Dimensions (H x W x D)	43 x 437 x 381mm (1.7" x 17.2" x 15.0")
Weight	Approximately 25 pounds
Hardware Platform	PC
Material	Metal

7. WARRANTY AND SUPPORT

7.1 Manufacturer's Warranty

This Supermicro server is covered by a manufacturer's warranty. Please refer to the warranty documentation provided with your purchase or visit the official Supermicro website for detailed terms and conditions regarding warranty coverage, duration, and service procedures.

7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Supermicro technical support. Have your server's model number (SYS-1019C-FHTN8) and serial number ready when contacting support to expedite service.

- **Supermicro Support Website:** www.supermicro.com/support
- **Contact Information:** Refer to the support website for regional contact numbers and email addresses.