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› Supermicro CSE-827HD-R1400B 1400W 2U Rackmount Server Chassis User Manual

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Model: CSE-827HD-R1400B

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Supermicro CSE-827HD-R1400B 1400W 2U Rackmount Server Chassis. This high-performance chassis is designed to house server components, offering robust power delivery and efficient cooling for demanding applications. Please read this manual thoroughly before proceeding with installation or operation.

2. SAFETY INFORMATION

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

- Ensure the power supply is disconnected before performing any installation or maintenance.
- Wear anti-static wrist straps when handling internal components to prevent electrostatic discharge (ESD).
- Do not operate the chassis with the cover removed unless specifically instructed for troubleshooting.
- Ensure proper grounding for all electrical connections.
- This chassis is heavy. Use appropriate lifting techniques or assistance when moving or installing it in a rack.
- Maintain adequate ventilation around the chassis to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Supermicro CSE-827HD-R1400B 2U Rackmount Server Chassis
- 1400W High-Efficiency (1+1) Redundant Power Supply (pre-installed)

- 4x 80mm PWM Cooling Fans (pre-installed)
- Rack mounting rails (if included with your specific purchase)
- Accessory kit (screws, cables, standoffs)
- Quick Installation Guide (this document)



Figure 3.1: Supermicro CSE-827HD-R1400B 2U Rackmount Server Chassis. This image shows the front view of the server chassis, highlighting its rackmount design and general appearance.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the server chassis and its components.

4.1. Rack Mounting

1. Attach the provided rack rails to the server chassis sides using the designated screws.
2. Mount the other end of the rack rails to the server rack posts, ensuring they are securely fastened.
3. Slide the chassis into the rack until it locks into place.

4.2. Motherboard Installation

The chassis supports ATX motherboards.

1. Remove the chassis top cover by unscrewing the retaining screws.
2. Install the I/O shield into the chassis rear panel.
3. Align the motherboard with the standoffs inside the chassis.
4. Secure the motherboard with the appropriate screws.

4.3. Hard Drive Installation

The chassis supports 3.5-inch hard drives.

1. Locate the drive bays.
2. Mount each 3.5-inch hard drive into a drive tray.
3. Slide the drive tray with the installed hard drive into the designated bay until it clicks into place.
4. Connect the SATA/SAS data and power cables to each hard drive.

4.4. Power Connections

1. Connect the main 24-pin ATX power connector from the power supply to the motherboard.
2. Connect the 8-pin (or 4-pin) CPU power connector to the motherboard.
3. Ensure all peripheral power connectors (e.g., for GPUs, additional fans) are properly connected.
4. Connect the AC power cords from the redundant power supplies to separate, grounded power outlets.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

- **Power On:** After all connections are secure, press the power button on the front panel. The power LED should illuminate.
- **Normal Shutdown:** Perform a graceful shutdown through the operating system.
- **Force Shutdown:** Press and hold the power button for 5-7 seconds. Use only when necessary to prevent data loss.

5.2. LED Indicators

Refer to your motherboard manual for specific LED indicator meanings. Common indicators on the chassis front panel include:

- **Power LED:** Indicates system power status (On/Off/Standby).
- **HDD Activity LED:** Flashes when hard drives are being accessed.
- **Network Activity LED:** Indicates network traffic (if integrated on the front panel).

6. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the chassis interior, especially fan blades and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Fan Inspection:** Check cooling fans for proper operation and excessive noise. Replace any failing fans promptly.
- **Cable Management:** Ensure internal cables are neatly routed to avoid obstructing airflow.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
System does not power on.	Power cables disconnected, faulty power supply, faulty power button.	Check all power connections. Verify power supply status LEDs. Test power button functionality.
Excessive fan noise.	Dust accumulation, failing fan bearing.	Clean fans. Replace noisy or failing fans.
System overheating.	Poor airflow, fan failure, dust buildup.	Ensure proper ventilation. Check fan operation. Clean dust from components.
Hard drives not detected.	Loose data/power cables, incorrect BIOS settings, faulty drive.	Verify all data and power cables are securely connected. Check BIOS/UEFI settings. Test drives in another system if possible.

8. SPECIFICATIONS

Feature	Detail
Brand	Supermicro
Model Name	CSE-827HD-R1400B
Form Factor	2U Rackmount
Motherboard Compatibility	ATX
Power Supply	1400W High-Efficiency (1+1) Redundant, 80 PLUS Gold Certified
Cooling Fans	4x 80mm PWM
Hard Disk Form Factor	3.5 Inches
Color	Black
Item Weight	68 Pounds
Product Dimensions (D x W x H)	28.5"D x 28.5"W x 28.5"H
UPC	672042062768
ASIN	B005KFBPBS

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Supermicro website. For technical support, product inquiries, or to report issues, please contact Supermicro customer service through their official channels.

Online Support: www.supermicro.com/support

Contact Information: Refer to the Supermicro website for regional contact details.