



SSE-C4632S/SR

USER'S GUIDE

Revision 1.0

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Manual Revision 1.0

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Chapter 1:

Introduction

This chapter provides a brief outline of the functions and features of the SSE-C4632S/SR switch.

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1.1 Preface

Document Scope

This document provides a detailed overview of the design features of the SSE-C4632S/SR switch and offers guidance on its setup and use.

Intended Audiences

- Firmware engineers
- System architects
- System application engineers

Document Conventions

Important: Important information given to ensure proper switch installation and function, or to relay safety precautions.

Note: Supplemental information given for proper switch setup.

1.2 Overview

This document describes the general hardware design of the SSE-C4632S/SR switch.

The SSE-C4632S/SR is an advanced distribution layer Ethernet switch for data center leaf-and-spine applications. Ideal use cases include campus, enterprise, and IP metropolitan network setups.

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Product Specifications

Parameter	Details
Depth	520 mm
Height	44 mm
Width	438 mm
Weight	10 kg
Power Input	90–264 VAC (50–60 Hz)
Power Consumption	500 W
Operating Temperature	0°C to 45°C
Operating Temperature	0°C to 45°C
Operating Relative Humidity	5% to 90%
Storage Temperature	-40°C to -70°C
Storage Relative Humidity	5% to 95%

Front Panel

The console port at the front of the SSE-C4632S/SR switch supports asynchronous mode. Set the data bit to 8, the stop bit to 1, the parity bit to none, and the default baud rate to 115200 bps.

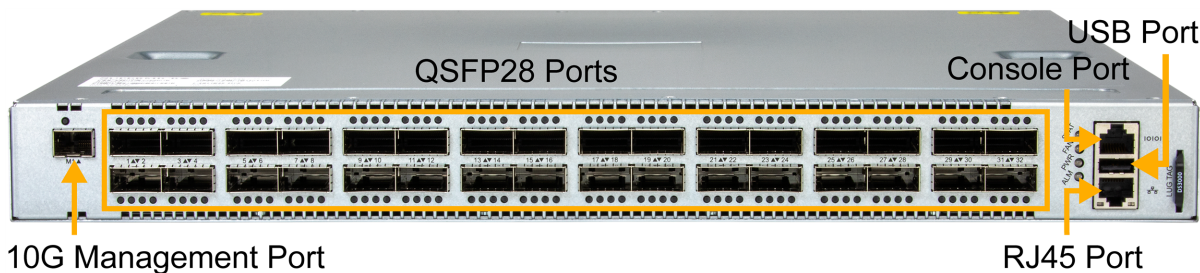


Figure 1-1. SSE-C4632S/SR Front Panel

Rear Panel

The rear panel of the SSE-C4632S/SR switch features dual redundant 500 W power supply modules and four fans.

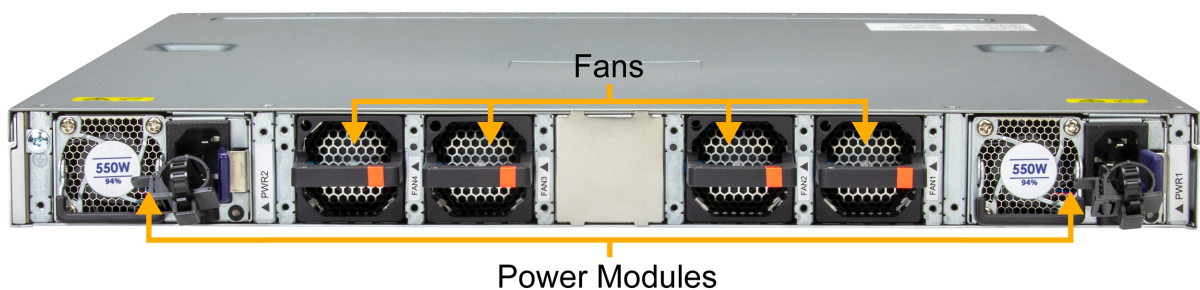


Figure 1-2. SSE-C4632S/SR Rear Panel

Port Description

The SSE-C4632S/SR switch features one RJ45 port, one SFP+ port, and 32 QSFP28 ports.

SSE-C4632S/SR Port Descriptions	
Port Type	Details
RJ45	<ul style="list-style-type: none"> 10/100/1000 Mbps auto-negotiation MDI/MDI-X cable mode auto-negotiation

SSE-C4632S/SR Port Descriptions	
Port Type	Details
SFP+	<ul style="list-style-type: none"> • Supports parallel multimode fiber OM3 and OM4 10G SR4 transceivers for short-reach applications • Supports long-reach 10G LR4 transceivers (10 km) over single-mode fiber • Supports copper 10G CR4 connections <ul style="list-style-type: none"> • 1 M 30 AWG • 3 M 28 AWG • 5 M 26 AWG • 7 M 24 AWG
QSFP28	<ul style="list-style-type: none"> • Supports parallel multimode fiber OM3 and OM4 100G SR4 transceivers for short-reach applications • Supports long-reach 100G LR4 transceivers (10 km) over single-mode fiber • Supports copper 100G CR4 connections <ul style="list-style-type: none"> • 1 M 30 AWG • 3 M 28 AWG • 5 M 26 AWG • Does not require switch device reboot for 100G port mode change to 4x25G • Uses breakout cable for 100G port mode change to 4x25G mode

Status LEDs

The front and rear panels of the SSE-C4632S/SR switch features 32 QSFP28 and one SFP+ port indicator LEDs, two power supply indicator LEDs, and a system automatic diagnostic LED.

Front Panel LEDs			
Indicator LED	Identifier	LED Status	Description
PSU	P1/P2	Green Solid	PSUs operating normally
		Amber Solid	PSUs operating with fault
		Off	PSU missing or no power

Front Panel LEDs			
Indicator LED	Identifier	LED Status	Description
Alarm	ALM	Green Solid	No alarm
		Amber Solid	Critical alarm
		Amber Blinking	Major alarm (4 Hz) Minor alarm (1 Hz)
System	STAT	Green/Amber Alternating (4 Hz)	Default CPLD setting
		Green/Amber Alternating (1 Hz)	For systems running ONIE

Rear Panel LEDs			
Indicator LED	Identifier	LED Status	Description
Fan Module Indicator LED	FAN1/FAN2/ FAN3/FAN4	Green Solid	Fan present with the normal status
		Amber Solid	Fan present with the Alarm status
		Off	Fan tray is missing
Ethernet Port Activity LED (Left)	N/A	Green Blinking	Port transmitting data
		Off	No data being transmitted on the port
Ethernet Port Activity LED (Right)	N/A	Amber Solid	Port configured with a speed of 10M/100M
		Green Solid	Port configured with a speed of 1000M
		Off	No connection, or failure to connect

Port Indicator LED Descriptions		
Indicator LED	Status	Description
QSFP28 Port	First Green Blinking	Port and link active in 100 GbE mode with link activity
	First Green Solid	Port and link active in 100 GbE mode without link activity
	All Amber Blinking	Port and link active in 4x10 GbE mode with link activity
	All Amber Solid	Port and link active in 4x10 GbE mode without link activity
	All Green Blinking	Port and link active in 4x25 GbE mode with link activity
	All Green Solid	Port and link active in 4x25 GbE mode without link activity
	Off	Port not active
SFP+ Port	Green Blinking	Port and link active in 10 GbE mode with link activity
	Amber Blinking	Port and link active in 1 GbE mode with link activity
	Green Solid	Port and link active in 10 GbE mode without link activity
	Amber Solid	Port and link active in 1 GbE mode without link activity

Chapter 2:

Hardware Overview

This section describes the key hardware components of the SSE-C4632S/SR Ethernet switch.

Important: To avoid overheating the system, replacing components is time-sensitive. The maximum time to remove and install any one PSU or fan module from the switch is ten minutes.

Note: The PSUs and fan modules are all hot-pluggable.

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2.1 Power Supply Units

The SSE-C4632S/SR switch uses two 500 W power modules in its standard configuration. The power modules are redundant. The standard configuration provides front-to-rear airflow, while there is a separate configuration that includes rear-to-front airflow components.

Important: Do not mix power modules of different airflow directions. The airflow direction of the power supply modules must be the same as that of the fan modules.

The maximum power is 500 W, the input is 90–264 VAC, and the output is 12 V +/- 5%. The outward-facing side of the power supply features a status LED, a fan, and a handle for inserting or removing the module. The power supply module supports hot-plug.

Note: PSUs are removable via the rear of the enclosure.

Power Supply LED States	
LED State	Description
Green	Output on with normal operation
Off	No AC power to all power supplies
Green, Blinking at 1 Hz	AC present, or only VSB on (PSU off)
Amber	AC cord unplugged or AC power lost, with a second power supply in parallel still with AC input power
Amber, Blinking at 1 Hz	Power supply warning events where the power supply continues to operate; high temp, high power, high current, slow fan, under-voltage
Amber	Power supply critical event causing a shutdown; failure, overcurrent protection (OCP), over-voltage protection (OVP), fan failure

AC Power Cord

The AC power sockets are located on the rear of the SSE-C4632S/SR switch. Contact Supermicro if you plan to use other types of power cords.

Important: For products with multiple power cords, all power cords must be disconnected to completely remove power from the system.

Important: Not all power cords have the same current ratings. Do not use the power cord provided with your equipment for any other products or use. Do not use household extension cords with your product.

Important: This product is designed to work with power systems that have a grounded neutral (grounded return for DC-powered products). To reduce the risk of electric shock, do not plug products into any other type of power system. Contact your facilities manager or a qualified electrician if you are not sure what type of power is supplied to your building.

Important:

This product supports the use of either Titanium-rated PSUs or Platinum-rated PSUs, but does not support mixed use.

Within the same rating level, only use PSUs with identical part numbers. For example, the use of two Titanium-rated PSUs with different part numbers is not supported. If non-matching PSUs are installed, you will encounter cases including but not limited to the following:

- For a full-system initial power up, if the system is powered up with non-matching PSUs, the system will not function (allow data I/O) until a valid PSU configuration is installed.
- If a PSU is replaced with a non-matching PSU while the system is functioning, the system will power off the newly inserted PSU and trigger an alarm mix log and the enclosure fault LED.

PSU Assembly and Installation

Follow the instructions below for information on installing the two PSUs of the SSE-C4632S/SR switch.

Removing a PSU

- To remove a power supply module, push the release tab on the module, then pull the module out using the handle provided.

Installing a PSU

- With the correct side of the power supply module facing up, and its handle pointing away from the switch, push the module into the power bay of the switch until it clicks.

2.2 Fan Modules

The SSE-C4632S/SR switch houses four fan modules in the rear of the chassis for drive cooling.

Fan Module LED

Each fan module of the SSE-C4632S/SR switch features one status LED. The amber Fan Fault LED is on when there is a fan fault, and is off when the fan is operating normally or there is no power to the switch.

Fan Installation

Follow the instructions below for information on installing the fan modules of the SSE-C4632S/SR switch.

Note: Images displayed are for illustrative purposes only. The components installed in your system may or may not look exactly the same as the graphics shown in the manual.

Removing a Fan

1. Press the fan module latch to release the handle.

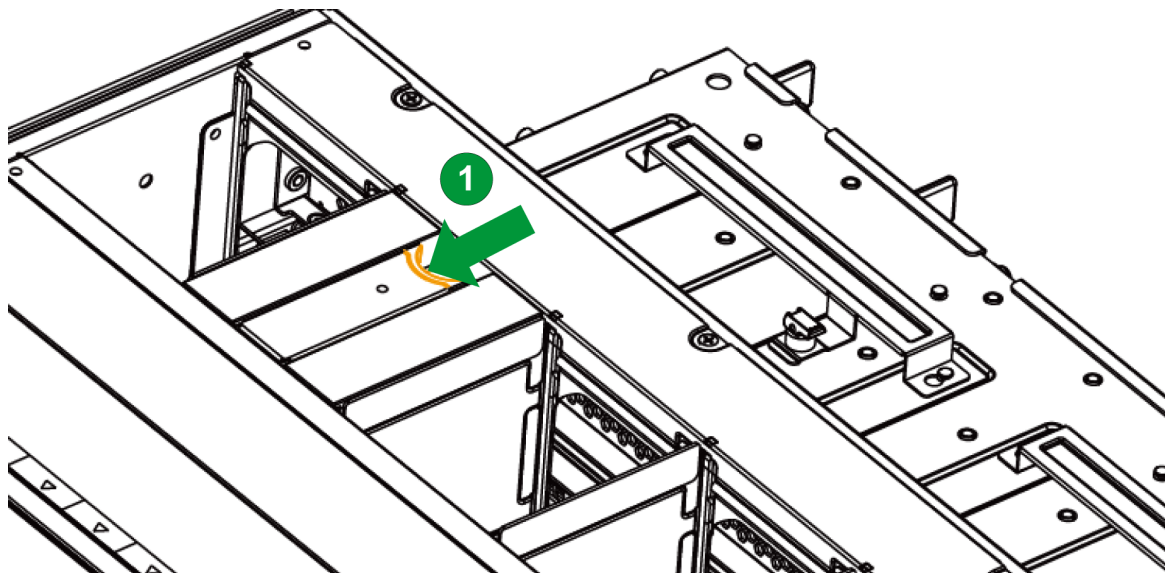


Figure 2-1. Releasing the Fan Module Handle

2. Rotate the handle to unlock the module.

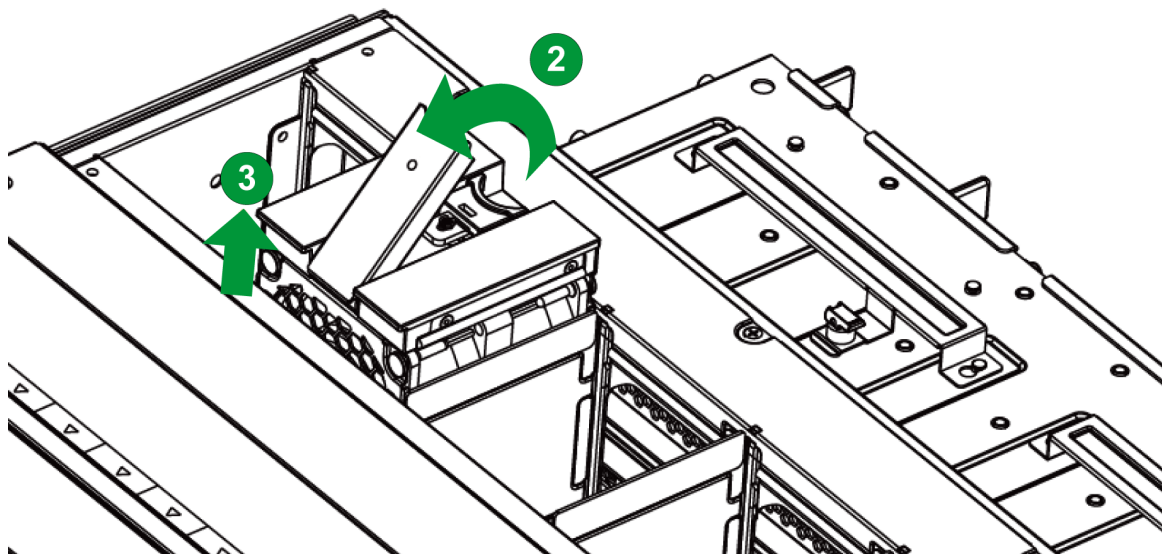


Figure 2-2. Removing the Fan Module

3. Use the handle to pull the fan module from the switch.

Installing a Fan

1. Ensuring that the fan module is aligned with the chassis fan slot, slide the module into place.
2. Rotate the handle downward into position until you hear a click.

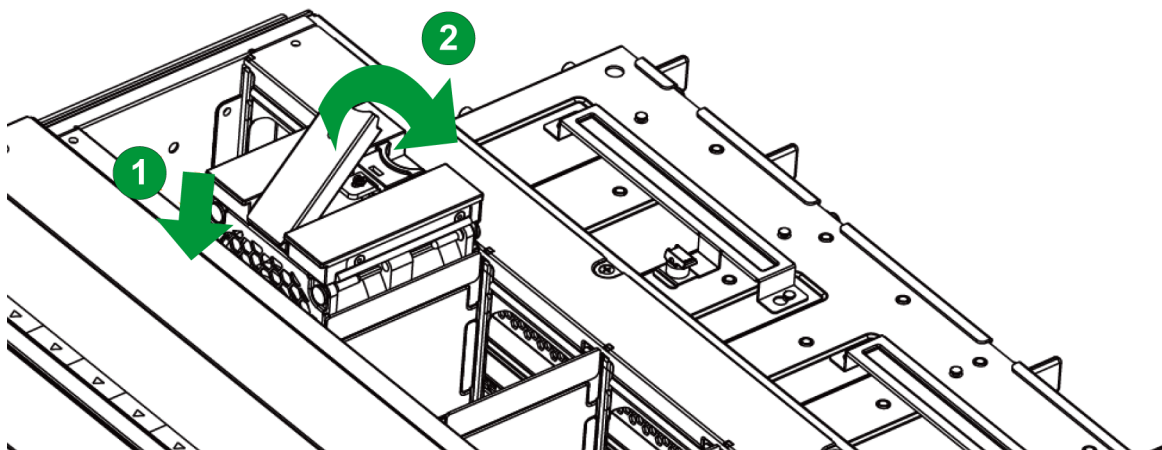


Figure 2-3. Installing the Fan Module

Chapter 3:

Installation Precautions

To ensure your physical security and proper operation of the SSE-C4632S/SR switch, carefully read the following installation guide.

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3.1 Safety Precautions

Read this section before beginning any procedure involving the SSE-C4632S/SR switch.

Important:

The SSE-C4632S/SR switch does not produce or have any laser-related functions. If you connect and install a device that supports laser functions (such as an optical transceiver), we recommend that you choose a product certified to the standards shown below:

- EN 60825-1, 1st Edition
- EN 60825-1 Safety of Laser Products — Part 1: Equipment Classification Requirements and Users' Guide
- EN 60825-2 Safety of Laser Products — Part 2: Safety of Optical Fiber Communication Systems
- FDA Regulation 21CFR 1040.10 and 1040.11

For your safety and the proper maintenance and operation of the SSE-C4632S/SR, follow these precautions when setting up this device.

- Follow all cautions and instructions marked on the equipment.
- Ensure that the voltage and frequency of your power source match the voltage and frequency noted on the system's electrical rating label.
- Never insert any objects through openings in the chassis. Dangerous voltages and/or moving parts might be present. Conductive external objects can produce short circuits that can damage the system or cause electric shock, resulting in serious personal injury.
- In order to not exceed operational temperature guidelines, do not block or cover the openings of the switch. Never place a switch near a radiator or other heat source. Failure to follow these guidelines can cause overheating and affect the reliability of the device.
- Do not drop the switch or subject it to physical shock.
- Keep liquids and flammable items away from the switch.
- Ship the switch atop a pallet, and inside the original or equivalent packaging.
- Supermicro does not assume any responsibility for problems caused by unauthorized repairs or replacements.
- Inspect and maintain the site and the switch regularly. Failure to do so can reduce the lifespan of this switch and possibly void the warranty.

3.2 Regulatory Information

FCC (US)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Notes:

- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.
- Any modifications made to this device that are not approved by Supermicro may void the authority granted to the user by the FCC to operate this equipment.

ICES-003 (Canada)

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

CE (European Community)

This product conforms to the following European Directive(s) and Standard(s): Application of Council Directive: 2014/35/EU, 2014/30/EU, 2011/65/EU.

Standards to which Conformity is declared: EN55022, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1.

This is a Class A product.

In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Waste Electrical and Electronic Equipment (WEEE)



Figure 3-1. WEEE Directive Symbol

In accordance with European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), the presence of the above symbol on the product or on its packaging indicates that this item must not be disposed of in the normal unsorted municipal waste stream. Instead, it is the user's responsibility to dispose of this product by returning it to a collection point designated for the recycling of electrical and electronic equipment waste. Separate collection of this waste helps to optimize the recovery and recycling of any reclaimable materials and also reduces the impact on human health and the environment.

For more information concerning the correct disposal of this product, please contact your local authority or the retailer where this product was purchased.

VCCI (Japan)

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI).

If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

3.3 Installation Notice

To ensure proper product operation and your physical security, read through these installation instructions carefully before installing the SSE-C4632S/SR switch. Make sure that the installation site, as well as all installation materials and tools, are well-prepared.

- During installation, you must use the brackets and screws provided in the accessory kit. You must use the proper tools to perform the installation. You must always wear an antistatic uniform and ESD wrist straps. You must use standard cables and connectors.
- After installation, you must clean the site. Before powering on the switch, you must ensure the switch is well-grounded. You must maintain the switch regularly to extend its lifespan.
- Do not block or cover the openings of the switch. Never place a product near a radiator or heat source. Failure to follow these guidelines can cause overheating and affect the reliability of the switch.

Important: There is danger of explosion if batteries are mishandled or incorrectly replaced. On a switch with replaceable batteries, replace only with batteries of the same manufacturer and type (or equivalent type recommended by the manufacturer) per the instructions provided in the product service manual. Do not disassemble batteries or attempt to recharge them outside the switch.

Important: Do not dispose of batteries in fire. Dispose of batteries properly in accordance with the manufacturer's instructions and local regulations. Note that on some CPU boards, there is a lithium battery molded into the real-time clock. These batteries are not customer-replaceable parts.

3.4 Electrostatic Discharge

Static electric discharge can cause damage to the internal circuits of the SSE-C4632S/SR switch, or even to the entire switch. Read and familiarize yourself with the following guidelines to avoid ESD damage:

- Ensure proper earth grounding of the device.
- Perform regular cleaning to reduce dust.
- Maintain proper temperature and humidity.
- Always wear an ESD wrist strap and anti-static uniform when in contact with circuit boards.

3.5 Anti-Interference




All sources of interference, whether from the SSE-C4632S/SR switch itself or the outside environment, will affect product operations in various ways, such as capacitive coupling, inductive coupling, electromagnetic radiation, common impedance (including the grounding system), and cables/lines (power cables, signal lines, and output lines). Familiarize yourself with the following points to prevent interference:

- Take precautions to prevent power source interruptions.
- Provide the system with dedicated grounding, rather than sharing the grounding with electronic equipment or lightning protection devices.
- Keep away from high-power radio transmitters, radar transmitters, and high-frequency strong circuit devices.
- Provide electromagnetic shielding, if necessary.

Chapter 4:

Power

Depending on the type of power system your SSE-C4632S/SR switch requires, the following symbols might be used on the power buttons.

Symbol	Definition
	On: Connect AC or DC power to the system depending on product and model.
	Off: Disconnect power from the system.
	Standby: Change system power to standby mode (low power).

Important:

- Check the input to ensure proper grounding of the power supply unit (PSU) before powering on the system.
- Improper power supply system grounding, extreme fluctuation of the input source, and transients (spikes) can result in data errors or even hardware damage.
- The product may be equipped with multiple power supplies. To remove all hazardous voltages, disconnect all power cords.
- This device is designed to work with power systems that have a grounded neutral (grounded return for DC-powered products). To reduce the risk of electric shock, do not plug the chassis into any other type of power system. Contact your facilities manager or a qualified electrician if you are not sure what type of power is supplied to your building.
- The system might have more than one power supply cable. To reduce the risk of electrical shock, a trained service technician must disconnect all power supply cables before servicing the system.

The symbol below is used when multiple power supplies are installed in a system. This warning label is typically found on the back of the device near the PSU.



Figure 4-1. Power Supply Warning Label

4.1 Power Connection

Installation of this equipment must comply with local and regional electrical regulations governing the installation of information technology equipment by licensed electricians. For electrical power ratings on options, refer to the power rating label or the user documentation supplied with that option.

Important: Do not use the power cord provided with your equipment with any other products. Only use the power cord(s) provided with the product to power it. Do not use household extension cords with your product.

Chapter 5:

Chassis Installation

This chapter covers the tools and procedures necessary to correctly and safely install the SSE-C4632S/SR switch. Before beginning, create a clean, stable, and level work surface.

The SSE-C4632S/SR switch is designed to be installed in a standard 19-inch four-post rack with square holes. The bracket kit is only for 19-inch (483 mm) wide, standard square hole racks, with a depth ranging from 22–33.5 inches (558–850 mm) as measured from rack post to rack post.

Important: Use two or more people to mount the chassis into the rack.

Note: The power distribution unit (PDU) location in the rack must avoid interference with the cable management accessory (CMA) and potential removal of PSUs and/or fan modules from the rear of the chassis. A wider rack enclosure width is recommended along with suitable PDU and power cord plug orientation.

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5.1 Installation Tools

Gather the following tools before starting the SSE-C4632S/SR switch installation:

- Phillips head (PH#1 and PH#2) slotted screwdrivers
- Standard flathead screwdriver
- Anti-static wrist strap
- Anti-static overalls
- Protective gloves

5.2 Rail Kit Assembly

There are several considerations to keep in mind when installing a rail kit in a server rack. Following these recommendations will ensure the successful installation of the rail kit and the SSE-C4632S/SR switch.

Important:

- To prevent the rack from tipping during equipment installation, the anti-tilt bar on the rack must be deployed.
- Rack-mounted equipment must not be used as a shelf or work space. Do not add weight to rack-mounted equipment.
- For safety, a rack must always be loaded from the bottom up. Install the equipment that will be mounted in the lowest part of the rack first, then the next chassis on the next part up, and so on.
- If a standard 19-inch rack is not available, the SSE-C4632S/SR can be placed on a clean, stable, and level surface. Leave a clearance of 100 mm (~4 inches) around the chassis for ventilation. Do not place anything on top of the chassis.

Elevated Operating Ambient Temperature

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment might be greater than room temperature. Therefore, consideration must be given to installing the equipment in an environment where the chassis does not exceed the maximum ambient temperature (T_{ma}) specified.

Reduced Airflow

Installation of the equipment in a rack must be such that the amount of airflow required for safe operation of the equipment is not compromised.

Open Rack Mounting

Take care to prevent the rack frame from obstructing the ventilation openings. Be sure to check the chassis positioning after installation to avoid overheating.

Circuit Overloading

Give careful consideration to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over-current protection and supply wiring.

Reliable Grounding

Always maintain reliable grounding (earthing) of rack-mounted equipment. Pay particular attention to supply connections other than direct connections to the branch circuit (for example, to the use of power strips).

5.3 Installing the Chassis

Important: The following procedure requires at least two people to install the chassis.

1. Attach the two outer brackets using the M4 screws provided in the accessory kit.
2. Align the outer bracket with chassis holes (the left and right brackets are identical).

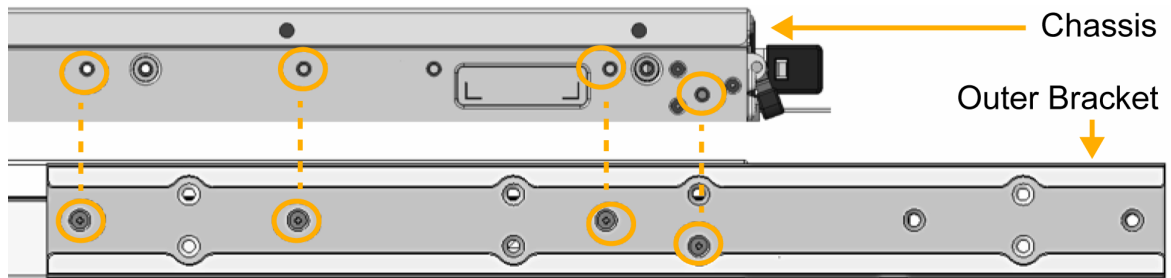


Figure 5-1. Aligning Outer Bracket with Chassis Holes

Note: These figures are for illustrative purposes only, and might display a different product. However, the installation process is similar to other Supermicro rack-mountable networking products.

3. Lock the outer bracket with M4 screws using the PH#2 slotted screwdriver.

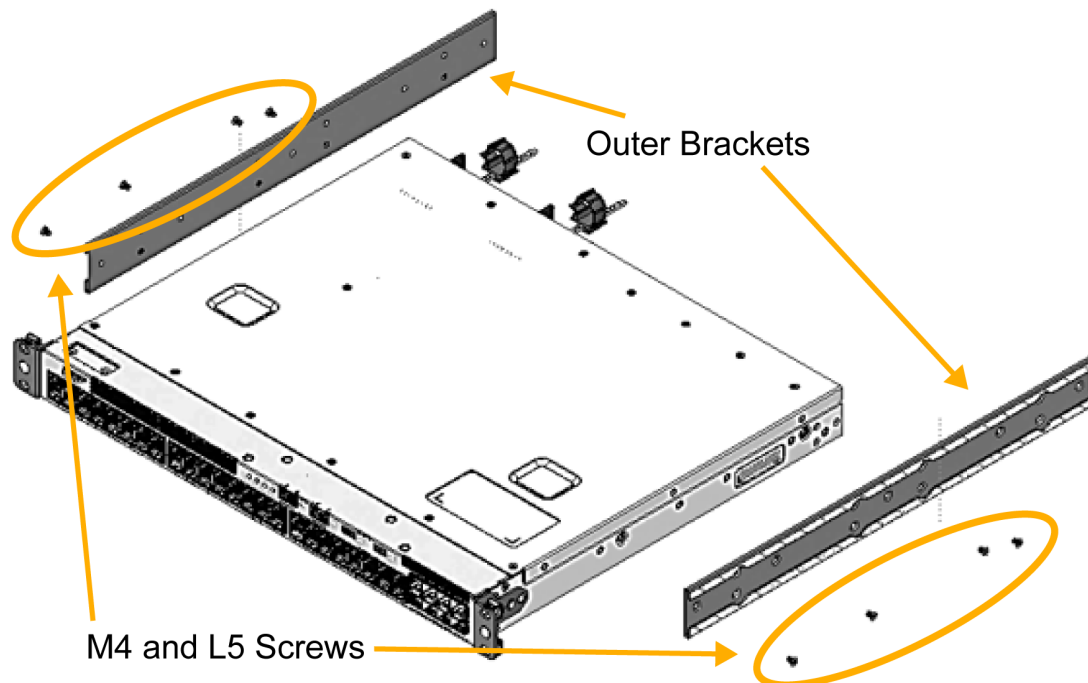


Figure 5-2. Bracket and Screw Positions

4. Have one person push the chassis with the outer bracket locked in Step 1 above from the front side, and simultaneously have a second person push the inner bracket into the outer bracket's (sleeve) slot on the chassis from the rear side.
5. Both people must press until the guide pin and inner bracket guide pin fit in the square holes of the rack. Then, lock them with M6 screws using the PH#3 slotted screwdriver.
6. Press the chassis and inner bracket until the M6 screws fully lock.
7. Save enough space around the switch for good air circulation.

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