

Installing an S-Series Option Module

Electrical Hazard: Only qualified personnel should perform installation procedures.

For complete installation instructions and information about the S-Series™ option modules, see the *Enterasys S-Series Option Module Hardware Installation Guide* at <https://extranet.enterasys.com/downloads/>.

For a listing of currently available S-Series option modules, refer to the S-Series datasheet at <http://www.enterasys.com/products>.

The S-Series option modules are shipped with the following:

- Pan head screws (2) for securing the option module to the S-Series I/O module.
- PoE power header (shipped with RJ45 port option modules only)

Handling an S-Series Option Module

Caution: The S-Series option modules are easily damaged by electrostatic discharge.

To prevent electrostatic damage, observe the following guidelines:

- Remove the option module from its packaging only when ready to install it.
- Do not touch the option module's pins, connectors, or components.
- Hold the option module by its edges or front panel only.
- Wear a grounded, anti-static wrist strap when handling the option module.
- Store or transport the option module only in anti-static packaging.

Caution: An anti-static wrist strap is required to perform the following procedures to minimize ESD damage to the devices involved.

Required Tools

This installation requires the following tools:

- Anti-static wrist strap
- Phillips screwdriver

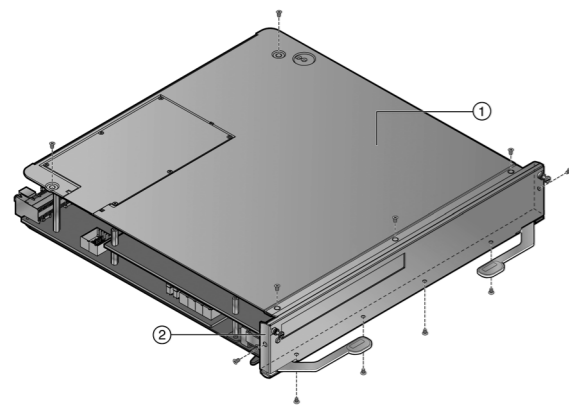
Removing the Top Cover, Faceplate, and Option Slot Coverplate

Warning: The top cover protects you from exposure to an energy hazard in excess of 240 Volt-Amperes. Never operate the S-Series I/O module without the top cover installed.

To remove the top cover, faceplate and option slot coverplate of an S-Series module:

1. Attach the anti-static wrist strap. Refer to the instructions on the anti-static wrist strap package.
2. Place the module on an anti-static pad on a sturdy flat surface.
3. Remove the eleven screws that fasten the top cover and faceplate to the main board of the module (five screws on top, two screws on the sides, four screws on the bottom). See [Figure 1](#).

Figure 1 Removing the Top Cover and Faceplate

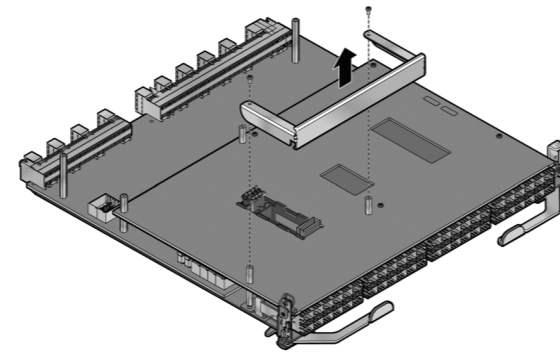


1 Top cover 2 Faceplate

Set the faceplate, top cover, and screws aside for reinstallation at the end of the procedure.

4. Remove the option slot coverplate by unscrewing the two screws that fasten the option slot coverplate to the module. See [Figure 2](#).

Figure 2 Removing the Option Slot Coverplate



Set the option slot coverplate aside in the event that you remove the option module and operate the module without an option module installed. You will use the two pan head screws to secure the option module to the S-Series module.

Installing the Option Module

Warning: If you are installing a VSB option module (SOV3208-0202), you must install it in the right option module slot of an S140 Class I/O module or an S180 I/O fabric module. You cannot install the VSB option module in the left option module slot.

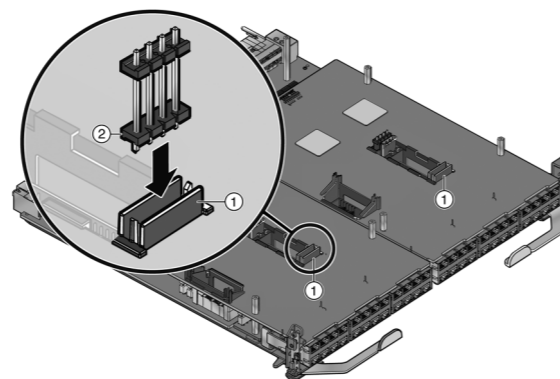
The procedure for installing an S-Series option module depends on the option module that you are installing.

- If you are installing an option module with RJ45 ports on a module that supports PoE, start at step 1.
- If you are installing an option module with SFP or SFP+ ports or you are installing an option module with RJ45 ports on a module that does not support PoE, start at step 2.

To install the option module:

1. Install the PoE power header, which allows the option module with RJ45 ports to receive PoE power. See [Figure 3](#).
 - a. Insert the power header into the slot in front of the option module ejection assembly.
 - b. Press down on the power header, applying pressure until it is properly seated in the module connector.

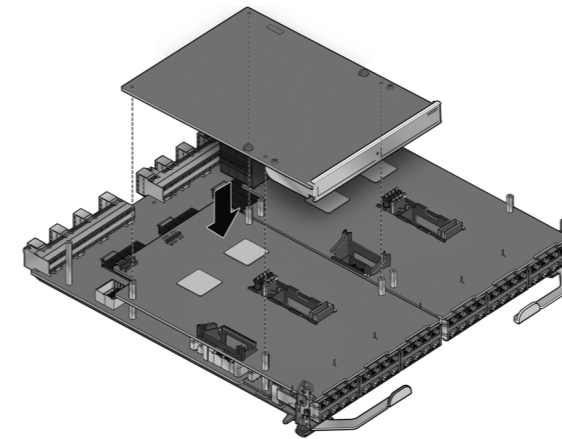
Figure 3 Installing the PoE Power Header for an Option Module with RJ45 Ports



1 Installation slot for PoE power header 2 PoE power header

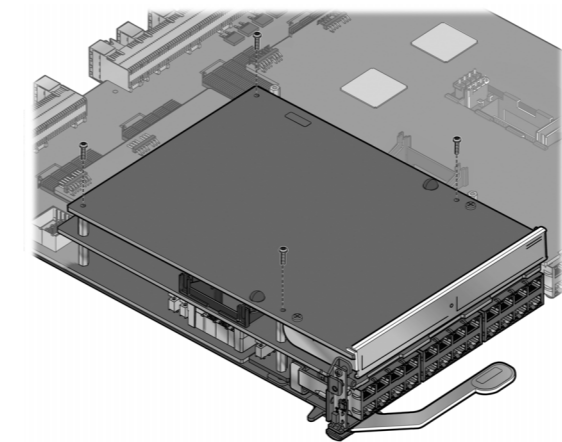
2. Position the option module so its connectors align with the module's motherboard connectors.
3. Press straight down on the option module, applying pressure directly over the connectors until they are properly seated. See [Figure 4](#). The bottom of the option module board should be flush against the top of the four standoffs under the option module.

Figure 4 Installing the Option Module



4. Secure the option module to the module by screwing the four pan head screws—two that are supplied with the option module and two that were removed with the option slot coverplate—into the four standoffs on the module. Tighten the screws snugly. Do not overtighten the screws. See [Figure 5](#).

Figure 5 Securing the Option Module to the S-Series Module



5. Reinstall the module's faceplate and top cover using the screws saved in the procedure "[Removing the Top Cover, Faceplate, and Option Slot Coverplate](#)".

This completes the option module installation. You can now install the module in an S-Series chassis.

In the event that you must remove the option module from the module, refer to the *Enterasys S-Series Option Module Hardware Installation Guide* at <https://extranet.enterasys.com/downloads/>.

Installing SFP or SFP+ Pluggable Transceivers

Warning: Fiber-optic SFP and SFP+ ports use Class 1 lasers. Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. When viewing the output optical port, power must be removed from the network adapter.

This installation procedure applies to all SFP and SFP+ transceivers. To install an SFP or SFP+ transceiver in an S-Series module:

1. Attach the anti-static wrist strap. Refer to the instructions on the anti-static wrist strap package.
2. Remove the SFP or SFP+ from the packaging. If there is a protective dust cover in the SFP or SFP+ connector, DO NOT remove it at this time.
3. Hold the SFP or SFP+ transceiver so that the connector will seat properly.
4. Carefully align the SFP or SFP+ with the port slot.
5. Push the SFP or SFP+ into the port slot until the transceiver clicks and locks into place.

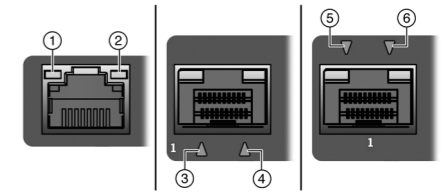
SFP and SFP+ Fiber-Optic Specifications

For SFP and SFP+ transceiver specifications, refer to the datasheet at the following URL: <http://www.enterasys.com/products/transceivers-ds.pdf>.

LEDs

You can view receive and transmit activity using the port RX and TX LEDs, as shown in [Figure 6](#).

Figure 6 Option Module LEDs (RJ45, SFP, and SFP+ Ports)



1 RJ45 port RX LEDs 3 SFP RX LED 5 SFP+ RX LED
2 RJ45 port TX LEDs 4 SFP TX LED 6 SFP+ TX LED

[Table 1](#) describes the option module port LED indications.

Table 1 Port LEDs

| LED | Activity | Status |
|---------------|-------------------|---|
| RX (Receive) | None | No link. No activity. Port enabled or disabled. |
| | Green (solid) | Link present, port enabled, no traffic is being received by the interface. |
| | Yellow (blinking) | Link present, port enabled, traffic is being received by the interface. |
| TX (Transmit) | None | Port enabled, but no activity. |
| | Green (blinking) | Indicates data transmission activity. Flashing frequency indicates the data rate. |
| | Yellow (solid) | Fault or error (collision). |

Port Configuration CLI Commands

For port configuration CLI commands, refer to the *Enterasys S-Series CLI Reference Guide* or the *Enterasys S-Series Configuration Guide* at <https://extranet.enterasys.com/downloads/>.

Temperature and Humidity

Operating: 5° to 40°C (41° to 104°F)

Storage: -30° to 73°C (-22° to 164°F)

Operating relative humidity: 5% to 90% (non-condensing)

Getting Help

For additional support related to S-Series option modules or this document, contact Enterasys Networks using one of the following methods:

| | |
|---|--|
| World Wide Web | http://www.enterasys.com/support/ |
| Phone | 1-800-872-8440 (toll-free in U.S. and Canada) or 1-603-952-5000 For the Enterasys Networks Support toll-free number in your country: http://www.enterasys.com/support/ |
| Internet mail | support@enterasys.com To expedite your message, type [S-Series] in the subject field of your message. |
| The latest image and release notes | https://extranet.enterasys.com/downloads/ |

Before contacting Enterasys Networks for technical support, have the following information ready:

- Your Enterasys Networks service contract number
- A description of the failure
- A description of any action(s) taken to resolve the problem (for example, changing mode switches, rebooting the unit)
- The serial and revision numbers of all involved Enterasys Networks products in the network
- A description of your network environment (layout, cable type, etc.)
- Network load and frame size at the time of trouble (if known)
- The device history (for example, have you returned the device before, is this a recurring problem?)
- Any previous Return Material Authorization (RMA) numbers

Related Documents

Documentation URL: <https://extranet.enterasys.com/downloads/>

Notice

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The hardware, firmware, or software described in this manual is subject to change without notice.

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Regulatory Compliance Information

Federal Communications Commission (FCC) Notice

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.

NOTE: 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 uses, generates, and can radiate radio frequency energy and if not installed in accordance with the operator's manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense.

WARNING: Changes or modifications made to this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Notice

This digital apparatus does not exceed the class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Class A ITE Notice

WARNING: 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.

Clase A. Aviso de ITE

ADVERTENCIA: Este es un producto de Clase A. En un ambiente doméstico este producto puede causar interferencia de radio en cuyo caso puede ser requerido tomar medidas adecuadas.

Product Safety

This product complies with the following: UL 60950, CSA C22.2 No. 60950, 2006/95/EC, EN 60950, IEC 60950, EN 60825, 21 CFR 1040.10.

Seguridad del Producto

El producto de Enterasys cumple con lo siguiente: UL 60950, CSA C22.2 No. 60950, 2006/95/EC, EN 60950, IEC 60950, EN 60825, 21 CFR 1040.10.

Produktsicherheit

Dieses Produkt entspricht den folgenden Richtlinien: UL 60950, CSA C22.2 No. 60950, 2006/95/EC, EN 60950, IEC 60950, EN 60825, 21 CFR 1040.10.

Electromagnetic Compatibility (EMC)

This product complies with the following: 47 CFR Parts 2 and 15, CSA C108.8, 2004/108/EC, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, AS/NZS CISPR 22, and VCCI V-3.

Compatibilidad Electromagnética (EMC)

Este producto de Enterasys cumple con lo siguiente: 47 CFR Partes 2 y 15, CSA C108.8, 2004/108/EC, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, VCCI V-3.

Elektro-magnetische Kompatibilität (EMC)

Dieses Produkt entspricht den folgenden Richtlinien: 47 CFR Parts 2 and 15, CSA C108.8, 2004/108/EC, EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, AS/NZS CISPR 22, VCCI V-3.

VCCI Notice

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 disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

BSMI EMC Statement — Taiwan

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.

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

AS/NZS CISPR 22



Hazardous Substances

This product complies with the requirements of Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

European Waste Electrical and Electronic Equipment (WEEE) Notice



In accordance with Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE):

- The symbol above indicates that separate collection of electrical and electronic equipment is required.
- When this product has reached the end of its serviceable life, it cannot be disposed of as unsorted municipal waste. It must be collected and treated separately.
- It has been determined by the European Parliament that there are potential negative effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.
- It is the users' responsibility to utilize the available collection system to ensure WEEE is properly treated.

For information about the available collection system, please contact Enterasys Customer Support at +353 61 705500 (Ireland).

产品说明书附件

Supplement to Product Instructions

| 部件名称 (Parts) | 有毒有害物质或元素 (Hazardous Substance) | | | | | |
|---|---------------------------------|-----------|-----------|----------------------------|---------------|-----------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr ⁶⁺) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 金属部件 (Metal Parts) | × | ○ | ○ | × | ○ | ○ |
| 电路模块 (Circuit Modules) | × | ○ | ○ | × | ○ | ○ |
| 电缆及电缆组件 (Cables & Cable Assemblies) | × | ○ | ○ | × | ○ | ○ |
| 塑料和聚合物部件 (Plastic and Polymeric parts) | ○ | ○ | ○ | ○ | ○ | × |
| 电路开关 (Circuit Breakers) | ○ | ○ | × | × | ○ | ○ |

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T 11363-2006 standard.

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。
Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T 11363-2006 standard.

对销售之目的所售产品，本表显示，
凯创供应链的电子信息产品可能包含这些物质。注意：在所售产品中可能会也可能不会含有所有所列的部件。
This table shows where these substances may be found in the supply chain of Enterasys' electronic information products, as of the date of sale of the enclosed product. Note that some of the component types listed above may or may not be a part of the enclosed product.

除非另外特别的标注，此标志为针对所涉产品的环保使用期标志。某些零部件会有一个不同的环保使用期(例如，电池单元模块)贴在其产品上。
此环保使用期限只适用于产品是在产品手册中所规定的条件下工作。
The Environmentally Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here, unless otherwise marked. Certain parts may have a different EFUP (for example, battery modules) and so are marked to reflect such. The Environmentally Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.



Safety Information Class 1 Laser Transceivers

The single mode interface modules use Class 1 laser transceivers.

Read the following safety information before installing or operating these modules.

The Class 1 laser transceivers use an optical feedback loop to maintain Class 1 operation limits. This control loop eliminates the need for maintenance checks or adjustments. The output is factory set, and does not allow any user adjustment. Class 1 Laser transceivers comply with the following safety standards:

- 21 CFR 1040.10 and 1040.11 U.S. Department of Health and Human Services (FDA).
- IEC Publication 825 (International Electrotechnical Commission).
- CENELEC EN 60825 (European Committee for Electrotechnical Standardization).

When operating within their performance limitations, laser transceiver output meets the Class 1 accessible emission limit of all three standards. Class 1 levels of laser radiation are not considered hazardous.

When the connector is in place, all laser radiation remains within the fiber. The maximum amount of radiant power exiting the fiber (under normal conditions) is -12.6 dBm or 55 x 10⁻⁶ watts.

Removing the optical connector from the transceiver allows laser radiation to emit directly from the optical port. The maximum radiance from the optical port (under worst case conditions) is 0.8 W cm⁻² or 8 x 10³ W m² sr⁻¹.

Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. When viewing the output optical port, power must be removed from the network adapter.

Safety Compliance

Warning: Fiber Optic Port Safety

CLASS I
LASER DEVICE

When using a fiber optic media expansion module, never look at the transmit laser while it is powered on. Also, never look directly at the fiber TX port and fiber cable ends when they are powered on.

Avertissement: Ports pour fibres optiques - sécurité sur le plan optique

DISPOSITIF LASER
DE CLASSE I

Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Transmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

Warnhinweis: Faseroptikanschlüsse - Optische Sicherheit

LASERGERÄT
DER KLASSE I

Niemals ein Übertragungslaser betrachten, während dieses eingeschaltet ist. Niemals direkt auf den Faser-TX-Anschluß und auf die Faserkabelenden schauen, während diese eingeschaltet sind.

Declaration of Conformity

Application of Council Directive(s): 2004/108/EC
2006/95/EC
2011/65/EU

Manufacturer's Name: Enterasys Networks, Inc.
Manufacturer's Address: 9 Northeastern Boulevard
Salem, NH 03079
USA

European Representative Name: Enterasys Networks Limited

European Representative Address: Nexus House, Newbury Business Park
London Road, Newbury
Berkshire RG14 2PZ, England

Conformance to Directive(s)/
ProductStandards: EC Directive 2004/108/EC

EN 55022:2006
A1:2007
EN 55024:1998
A1:2001
A2:2003
EN 61000-3-2:2006
A1:2009
A2:2009
EN 61000-3-3:2008
EC Directive 2006/95/EC
EN 60950-1:2006
A1:2009
EN 60825-1:2007
EN 60825-2:2004
A1:2007
EU Directive 2011/65/EU

Equipment Type/Environment: Information Technology Equipment,
for use in a Commercial
or Light Industrial Environment.

The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic

