

User's Guide

Version 1.00
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Introduction

Use a transceiver module for connection to a remote device. The SFP+ (SFP Plus) is an enhanced version of the SFP and supports data rates of 10 Gbps. The SFP+ transceiver modules are hot swappable. This means that you can install and remove a module while your device is operating. The SFP+ modules provide duplex single-mode or multi-mode connections.

The SFP+ module uses LC-type connectors.

Handling, Safety and Environmental Guidelines

Read the following guidelines before installing and using an SFP+ module.

Handling Warning

SFP+ modules are static sensitive. To prevent damage from electrostatic discharge (ESD), it is recommended you attach an ESD preventive wrist strap to your wrist and to a bare metal surface when you install or remove an SFP+ module.

SFP+ modules are dust sensitive. When not in use, always keep the dust plug on. Avoid getting dust and other contaminant into the optical bores, as the optics do not work correctly when obstructed with dust.

Safety Warning

Fiber-optic SFP+ modules are equipped with a Class 1 laser, which emits invisible radiation. Read the following safety warnings carefully.

- To avoid possible eye injury, do not look into an operating fiber-optic module's connectors.
- Laser radiation is present when the device or system is powered up.
- Only trained and qualified personnel should be allowed to install or replace these modules.

Note: Class 1 Laser Product.

Appareil A` Laser De Classe 1
Laser Produkt Der Klasse 1.

Environmental Warnings

Dispose of your fiber-optic module according to all national laws and regulations.

Installing and Removing an SFP+ Module

This section describes how you install and remove a SFP+ module.

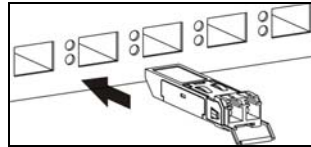
Note: Disconnect all fiber-optic cables from an SFP+ module before installing or removing it.

Do NOT remove and install an SFP+ module more often than is absolutely necessary. Doing so may shorten the useful life of the SFP+ module.

Installing an SFP+ Module

Follow the steps below to install an SFP+ module.

- 1 Attach an ESD preventive wrist strap to your wrist and to a bare metal surface.
- 2 Remove the SFP+ module from its protective packaging.
- 3 Locate the transmit (Tx) and the receive (Rx) markings on the SFP+ module.
- 4 Align the SFP+ module in front of the slot opening on a device.
- 5 Insert the SFP+ module into the slot until the SFP+ module snaps into place

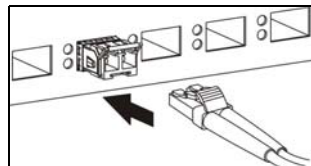


Note: SFP+ module installation orientation varies depending on your device. Your SFP+ module comes with a mechanism that prevents incorrect insertion. Do NOT force or twist the SFP+ module into a slot. Do NOT insert the SFP+ module into a 1-Gigabit SFP slot.

Connecting a Fiber-optic Cable

Follow the steps described to connect a fiber-optic cable to the SFP+ module.

- 1 Remove the dust plugs from the SFP+ module and the cables.
- 2 Identify the signal transmission direction of the fiber-optic cable and the SFP+ module. Insert one end of the fiber-optic cable into the SFP+ module.
- 3 Insert the other end of the fiber-optic cable into a remote device.

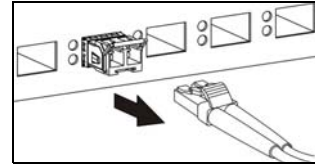


Refer to the user's guide that comes with your device for SFP+ module slot status.

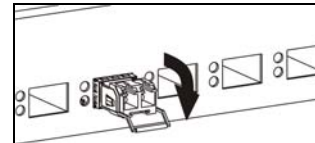
Removing an SFP+ Module

Follow the steps below to remove an SFP+ module.

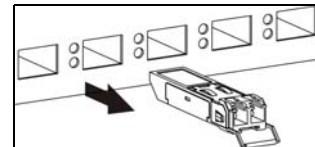
- 1 Attach an ESD preventive wrist strap to your wrist and to a bare metal surface on the chassis.
- 2 Disconnect all fiber-optic cables from the SFP+ module.



- 3 Insert the dust plug into the ports on the SFP+ module.
- 4 Pull out the latch and down to unlock the SFP+ module.



- 5 Using your thumb and index finger, grasp the tabs on both sides of the module and carefully slide it out of the slot.



Note: Do NOT force or twist the module out of a slot.

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