

SFP/SFP+/SFP28/ QSFP28 Fiber and Copper Transceiver

User's Guide



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Warranty

Thank you for purchasing Zyxel product. Zyxel has the great reputation in the market to provide best quality and performance on product and service to our customer. It is our pleasure to invite you to visit our website and register your product for receiving the latest Firmware, drive and product related information. If you still have further question or problem related to the product, please contact your vendor or our subsidiaries worldwide for further warranty information, kindly be noted the warranty terms may vary by regions, detail information is available on our website, please link to: http://www.zyxel.com/support/warranty_information.shtml



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Introduction

This User's Guide provides information, as well as installation and removal instructions for the following transceiver modules:

- Fiber SFP/SFP+/SFP28/QSFP28
- Copper SFP/SFP+

Use a transceiver module for a fiber or Ethernet connection. You can install and remove a module while your Switch is operating.

All modules use 3.3V power input and use the following connector types:

- Fiber SFP/SFP+/SFP28 module: LC connector
- Fiber QSFP28 module: LC connector or MPO-12 connector
- Copper SFP/SFP+ module: RJ-45 connector

An SFP/SFP+/SFP28/QSFP28 module may support data rates of 100M/1G/10G/25G/100G bps and single-mode/multi-mode connection depending on its specification.

Handling Warning

All modules are static sensitive. To prevent damage from electrostatic discharge (ESD), it is recommended you use an ESD preventive wrist strap.

All 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

All fiber modules are equipped with a Class 1 laser, which emits invisible radiation. Read the following safety warnings carefully.

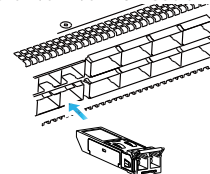
- To avoid possible eye injury, do not look into an operating fiber module's connectors.
- Laser radiation is present when the device or system is powered up.
- Only trained and qualified personnel should be allowed to install or replace these modules.
- CLASS 1 LASER PRODUCT
- APPAREIL À LASER DE CLASS 1
- CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Environmental Warnings

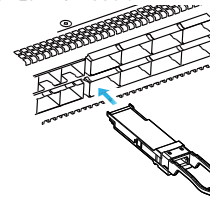
Dispose of your fiber/copper module according to all national laws and regulations.

Installing a Module

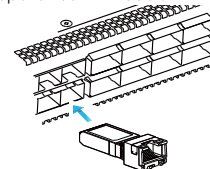
Fiber SFP/SFP+/SFP28 Module



Fiber QSFP28 Module



Copper SFP/SFP+ Module

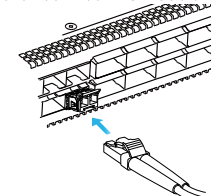


- 1 Attach an ESD preventive wrist strap to your wrist and attach the other end to a bare metal surface.
- 2 Remove the module from its protective packaging.
- 3 Align the module in front of the slot opening on the Switch.
- 4 Insert the module into the slot until the module snaps into place.

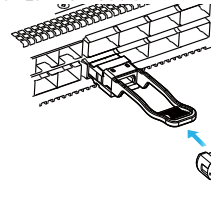
Note: Module installation orientation varies depending on your Switch. Your module comes with a mechanism that prevents incorrect insertion. Do NOT force or twist the module into a slot.

Connecting a Cable

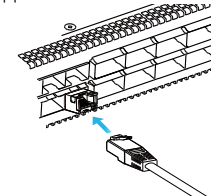
Fiber SFP/SFP+/SFP28 Module



Fiber QSFP28 Module



Copper SFP/SFP+ Module

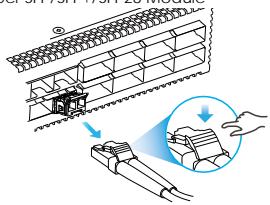


- 1 Remove the dust plugs from the module and the cable.
- 2 Insert one end of the cable into the module.

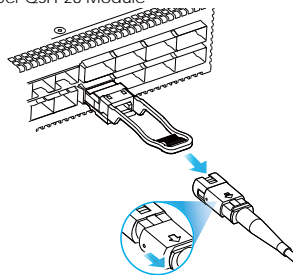
Note: Refer to the user's guide that comes with your Switch for module connection status.

Removing a Cable

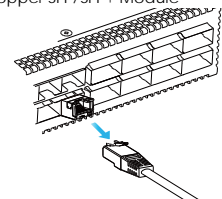
Fiber SFP/SFP+/SFP28 Module



Fiber QSFP28 Module



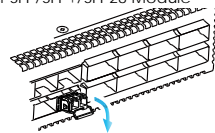
Copper SFP/SFP+ Module



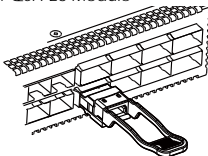
- 1 Attach an ESD preventive wrist strap to your wrist and attach the other end to a bare metal surface on the chassis.
- 2 Press or hold the clip on the cable connector, then pull to remove the cable from the module.

Unlocking a Module

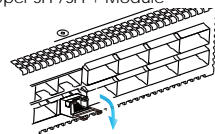
Fiber SFP/SFP+/SFP28 Module



Fiber QSFP28 Module



Copper SFP/SFP+ Module

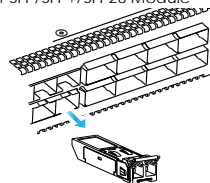


Note: The latching mechanisms might be slightly different by module types.

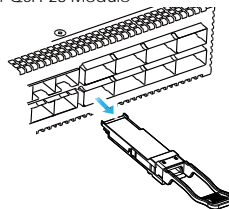
- 1 Fiber SFP/SFP+/SFP28 Module and Copper SFP/SFP+ Module: Pull the latch out and down to unlock the module.
Fiber QSFP28 Module: Grasp and pull the pull tab to unlock the module.

Removing a Module

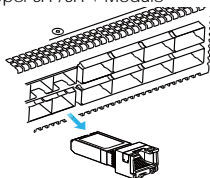
Fiber SFP/SFP+/SFP28 Module



Fiber QSFP28 Module



Copper SFP/SFP+ Module



- 1 Fiber SFP/SFP+/SFP28 Module and Copper SFP/SFP+ Module: Pull the latch, or use your thumb and index finger to grasp the tabs on both sides of the module, and carefully slide it out of the slot.
Fiber QSFP28 Module: Once the module is unlocked, carefully slide it out of the slot.

Note: Do NOT force or twist the module out of the slot. If the module does not slide out, grasp the tabs on both sides of the module with a slight up/down motion and carefully slide it out of the slot. If unsuccessful, contact Zyxel Support to prevent damage to your Switch and module.

- 2 Insert the dust plug into the ports on the module.