

# Can optical ports on a switch be connected in series



## Overview

Yes, the main line of the optical fiber LAN is a direct switch, followed by a router. The switch connected to the switch is called cascade. Most modern fiber-enabled network switches require an SFP transceiver module. ExtremeSwitching switches provide 2, 4, or 12 uplink ports implemented as s that pair a copper port using RJ45 connectors with an optical port using LC connectors. The copper port operates as an autonegotiating 10/100/1000BASE-T port. The optical port allows Gigabit Ethernet uplink connections. A combo port, also known as an optoelectronic multiplexing interface, is a photoelectric composite port with two kinds of Ethernet interfaces (RJ45 port and SFP port) on an Ethernet switch. In other words, it is a compound port that can support two different physical layers and share the same. Thus, it is recommended to connect only Cisco-compatible transceivers to Cisco equipment. You can obtain the list of compatible transceivers by visiting the Cisco Optics-to-Device Compatibility Matrix or run the `show interface show interface transceiver supported-list` command.

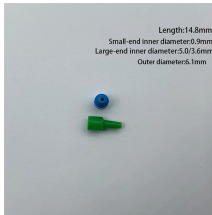
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Choosing the wrong polish type can damage the transceiver due to the ORL level, and at best, it can lead to link instability and Layer 1 errors. In order to consult the polish type of the cable, ...



Combo ports are single interfaces with dual front ends (RJ45 or SFP), supporting both copper and optical SFP connections. However, both SFP ports cannot be used simultaneously. For ...



Combo SFP ports on a switch offer support for both SFP and RJ45 ports using a single interface. Users can't use both ports simultaneously, however, as only one type works at a time.



The optical port allows Gigabit Ethernet uplink connections through Extreme Networks small form factor pluggable (SFP) interface modules. See the individual switch descriptions for the port numbers of the ...



For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description. The following figure shows the ...



The purpose of this guide is to provide general guidelines for troubleshoot layer 1 connectivity issues when using transceivers in Ethernet switches.



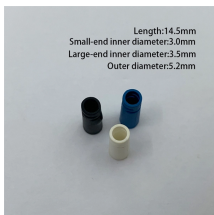
Additionally, identifying module information helps detect coding compatibility between the module and the switch. The following introduces the specific operations to view the working status ...



For combo ports on Ethernet switch, it is highlighted that optical or electrical ports can't be used at the same time. Generally, the combo ports are labeled by vendors.



Can two switches with optical ports be directly connected by optical fiber? Yes, the main line of the optical fiber LAN is a direct switch, followed by a router.



SFP modules provide the fiber optic connection for network switchers with fiber optic (SFP) ports. The modules are swappable and are specific to either duplex multimode fiber or duplex single mode fiber.

## Contact Us

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