

Can a 100Mbps port on a switch be connected to a 100Mbps optical module



Overview

Each module provides 100 Mbps or 1000 Mbps optical connections. The type of switch, router, or other component determines the compatible type of SFP module. Use only Extreme Networks-certified SFP, SFP+, and SFP28 modules in the SFP port on the hardware. A 100BASE FX SFP transceiver enables Fast Ethernet transmission over multimode fiber, typically operating at 1310nm and supporting distances up to 2km. Compared with copper-based 100BASE-TX connections, it offers stronger EMI immunity, longer reach, and improved reliability in electrically noisy. An SFP port is a physically small slot in a networking device that accepts an SFP module insert. You may connect different. I want to know if I can connect a server with a 100Mb fibre multimode interface to a 1000Mb SFP (GLC-SX-MMD) on a Cisco 3850 (WS-C3850-24S-E). Is any problem with the speed negotiation of each side?

I suppose on the switch side the interface is going to negotiate to 1000Mb only but I read that this. EX Series switches support a mix of speeds from 10 Mbps up to 100 Gbps depending on the model and port type, with many models supporting multi-gigabit speeds (2.5 Gbps, 5 Gbps) on copper ports and 10/25/40/100 Gbps on fiber or QSFP ports.



Article Content

Oct 08, 2025

Connect SFP multimode 100Mb to a 1000MB SFP on switch

I suppose on the switch side the interface is going to negotiate to 1000Mb only but I read that this is not to be a problem for the server, but is not sure. Thanks in advance for your help.

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Fast Ethernet

Alternatively, it is possible to connect two devices directly using a crossover cable. With today's equipment, crossover cables are generally not needed as most equipment supports auto-negotiation ...

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A Straightforward Guide to the SFP Port on a Gigabit Switch

Final takeaway An SFP port on a gigabit switch is a small, pluggable slot that gives you outsized flexibility: swap optics to change cable type or extend reach without replacing the switch. For short ...

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The type of switch, router, or other component determines the compatible type of SFP module. Use only Extreme Networks-certified SFP, SFP+, and SFP28 modules in the SFP port on the hardware.

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Port Speed on EX Series Switches | Junos OS | Juniper Networks

To view the supported transceivers, optical interfaces, and DAC cables on EX4400 switches, see Hardware Compatibility Tool (HCT). A speed mismatch configuration, such as 100 Mbps on one end ...

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What Is an SFP Port on a Gigabit Switch?

An SFP port is a modular slot that accepts Small Form-factor Pluggable transceivers, allowing a switch to connect to either fiber-optic or copper cabling depending on the module inserted.

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Understanding SFP to SFP+ Compatibility: A Comprehensive Guide

Therefore, it is not possible to use a 100BASE SFP module in an SFP+ port. To avoid confusion and ensure a smooth network operation, it's recommended that you consult the vendor or ...

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Understanding SFP to SFP+ Compatibility: A ...

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100BASE FX SFP: Complete Guide to 100Mbps Fiber Transceivers

A 100BASE FX SFP enables 100Mbps Fast Ethernet transmission by converting electrical signals from a switch or media converter into optical signals for fiber transmission, and then converting them back to ...

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What is SFP Port? Everything You Need to Know

What Is An SFP Port? Why Is The SFP Port Important? SFP Port vs. RJ45 Port SFP Slot vs SFP Port FAQ Final Thoughts Nearly all high-speed network switches will only work with fiber ports because only fiber can provide the maximum bandwidth over a long distance. Though copper cables still support high-speed transmission, they are thicker, more expensive, dangerous and suitable only for short lengths. The fiber port is an essential part of modern Ethernet switches... See more on optcore Cisco Learning Network

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Sep 30, 2025

What is SFP Port? Everything You Need to Know

An SFP port is a physically small slot in a networking device that accepts an SFP module. This definitive guide tells you everything about it.

Contact Us

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