

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



Overview

If you need 100 Mbit, you have to use the GLC-GE-100FX SFP - this module is 100 Mbit (100Base-FX) and will be compatible with your server. The GLC-SX-MMD is fixed speed and can only operate at 1 Gbit. A 100BASE FX SFP transceiver enables Fast Ethernet transmission over multimode fiber, typically operating at 1310nm and supporting distances up to 2km. Can 1G SFP Optics Run at 10G SFP+ Port?

Can 10G SFP+ Optics Run at 1G SFP Port?

Can. Optical transceivers are compact, hot-pluggable devices that convert electrical signals into optical signals, enabling high-speed data transmission across switches, routers, and other networking equipment. Transceiver compatibility is a key concern in enterprise network deployments. Can an SFP. Let's say that my internet speed is 600Mbps and that I want to add a switch with five ports between my PC and router, will the switch limit the speed to 100Mbps (since it's not 1Gbps), or will it let the full speed pass to all five ports?

Thanks! Archived post. It connects access layer devices and uplinks from desktop switches or directly to end devices. RJ45 ports remain essential for.

Article Content

Nov 04, 2025

Do switches limit speeds that are between 100 and 1000Mbps ...

Let's say that my internet speed is 600Mbps and that I want to add a switch with five ports between my PC and router, will the switch limit the speed to 100Mbps (since it's not 1Gbps), or will it let the full

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networking

Normally, both ends would just negotiate the highest available speed. But if you have autonegotiation disabled, but the switch expects it to be enabled, you'll be stuck with a very

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RJ45 vs SFP Port: Which Should Be Used to Connect

Analysis: When connecting 1000Mbps switches in the same rack, there are advantages to using SFP ports over RJ45. First, the fiber connections

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Network switch speed question

Yes, a 10/100 switch will limit speed to under 100Mbps. It will actually limit two devices to 100Mbps combined because the input port is limited to 100Mbps too--unless you get one of...

May 10, 2026

6 Port Mini PoE Switch with 4 Ports PoE+ 2 Fast Ethernet Uplink 10 ...

□6×100M Ports□Includes 4 PoE+ ports and 2 Ethernet UpLink ports, all ports up to 10/100Mbps speed. The 2 uplink ports can be connected to different networks or devices, such as routers, NVRs, etc.

Sep 11, 2025

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

Gigabit SFP ports generally do not support 100Mbps modules unless explicitly dual-rate. Upgrading to 1Gbps may require replacing both modules and switching hardware.

Aug 25, 2025

networking

If the port is at fault, you'll get only 100 Mbps on it no matter what the cable length is and what's connected on the other end. If other ports give you only 100 Mbps with this cable, then the

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What is SFP Port? Everything You Need to Know

What is an SFP port? The SFP port also refers to a Small Form-factor Pluggable port. It is a compact mechanical slot that accepts an SFP

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What does a 10/100 Ethernet Mean?

10/100 Ethernet describes network ports and devices that support both 10 Mbps and 100 Mbps wired speeds. These ports still appear on older

Feb 26, 2026

Can you mix gigabit and 10/100 ethernet on the same network?

I have an Apple Airport Extreme Gigabit router and some new machines I need to put on my network (PS3, Mrs' laptop etc.) but the router has only got four ports so I was thinking of getting a simple,

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New Unicom SmartPoE/802M 8 Port 10/100 Managed PoE Switch with 2 Gigabit Combo Supports power budget up to 124 Watts Automatic MDI/MDIX crossover 8K entry MAC address table

Aug 22, 2025

Mixing gigabit and 100Mbps devices | Tom's Hardware Forum

If I have a 10/100Mbps switch with a 10/100Mbps server and 2 10/100Mbps clients communicating with the server, will the speeds of the two clients be limited to (for example) 50Mbps

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A Comprehensive Overview of Ethernet Switch Port Types

You can add a compatible SFP transceiver module to the SFP port of Ethernet switches. This can be a fiber optic SFP or a copper SFP, enabling

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What does the 1000M on a network switch mean?

24-Port 10/100Mbps labelled on the switch means that there are 24 ports which handle 10/100Mbps, and 2 SFP/1000T shows that this switch can

Mar 27, 2026

How to Choose SFP Module for Compatibility, Speed,

Learn how to choose the right SFP module based on compatibility, speed, fiber type, wavelength, and distance. Practical guide for engineers and IT

Oct 04, 2025

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

The GLC-SX-MMD is fixed speed and can only operate at 1 Gbit. If you need 100 Mbit, you have to use the GLC-GE-100FX SFP - this module is 100 Mbit (100Base-FX) and will be compatible with your

Oct 03, 2025

Advice/Tips on connecting 10Mbps devices to switches that don ...

We recently replaced all of our access switches with some newer Arista switches . All the new switches have ports that support 100Mbps/1Gbps, and multi-gig; they do NOT support 10Mbps at all. Out of

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Configure and Verify Ethernet 10/100/1000Mb Half/Full Duplex ...

These ports work on 10 Mbps, 100 Mbps, or 1000 Mbps speed based on their connection to the other end. These 10/100/1000 Mbps ports can be configured for speed and duplex negotiation

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100/1000 Mbs interface, auto

Put simply the switch does not negotiate the speed with the other switch but it can still work it ou)). I was refering to this point, as long as the other swith port speed sets to 100, the other

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Understanding SFP to SFP+ Compatibility: A

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

Sep 18, 2025

can a secondary router do gigabit if primary router is 100mbps only?

Easy question for people that know about Ethernet and routers... I have a router that connects to my internet with 100mbps ports only. I want to plug in a gigabit router to one of its

Mar 25, 2026

1000BASE-T Switch with SFP Ports Interconnection

When connecting two 1000BASE-T switch with SFP ports to get Gigabit Ethernet, there exist two methods: making a connection via a 1000BASE

Aug 20, 2025

Configure and Verify Ethernet 10/100/1000Mb Half/Full Duplex ...

If you use an Ethernet port on the switch with a fiber interface to connect to another switch port, a router port, or other Layer 2 device, you need to reverse the connection on one of the devices.

Jun 07, 2026

Mixing 1000mbs and 100mbs switches

Hello all, Running a network with 12 Cisco 3560 and 2960 switches which are 10/100. I want to add 1 SR2024 10/100/1000 switch. Question is: is it possible to use the GB switch for a select

Jul 02, 2026

SFP vs SFP+: A Complete Guide to Compatibility and

Optical transceivers are compact, hot-pluggable devices that convert electrical signals into optical signals, enabling high-speed data transmission

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Can a gigabit switch be connected to a 100Mbps

Wondering if a gigabit switch works with a 100Mbps network cable? Learn the differences between Cat5E and Cat6 cables, how they affect your network

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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