

A 100Mbps fiber optic cable can be connected to a gigabit switch



Overview

A gigabit switch can be connected to a 100Mbps network cable, but only 100Mbps can be used on this line, and it cannot reach gigabit level. (Unless cross-over cables are needed between devices. In our home LAN, the transmission medium is typically 100Mbps network. In practical terms, 10 100 1000 Base T refers to Ethernet ports capable of operating at 10Mbps, 100Mbps, or 1000Mbps (1Gbps) using standard RJ45 connectors and twisted-pair cabling such as Cat5e or Cat6. Through auto-negotiation, devices automatically select the highest supported speed, allowing. Does the internal network adapter get in 100MBPS mode while connected to the router while 1GBPS while connected to switch?

Have you tried to log into your router and see if there is settings for port speed that can be changed?

Have you tried to communicate internal between computers at home?

Are. This connection is plugged into a fast ethernet (100mbps) port on my core Cisco switch. Would I be better off plugging it into a gigabit port?

I don't appear to be getting my full bandwidth to the internet through the core switch and am wondering if that is because of the port I am using. I do. In computer networking, Gigabit Ethernet (GbE or 1 GigE) is the transmission of Ethernet frames at a rate of a gigabit per second. The most popular variant, 1000BASE-T, is defined by the IEEE 802. The switch is plugged into one of the 4 ports on my Google Fiber router. I also have a Synology NAS with two NICs.

Article Content

Apr 20, 2026

Virgin Media Broadband Deals: Compare in May 2026

Full fibre (or FTTP) broadband uses modern fibre-optic cables to deliver the fastest and most reliable connection - even at peak times.

Jan 09, 2026

How does business internet compare to fiber optic

How does business internet compare to fiber optic Fiber vs. Cable Internet: What's Best for Your Small Business? Business Fiber vs. cable internet: What's best for your small business?, Author: Gary

Jun 08, 2026

How is Fiber Internet Installed? Everything You Need to

Explore how fiber optic internet is installed in your home, with step-by-step details on cables, ONTs, routers, and what to expect during the appointment.

Aug 13, 2025

Ethernet

The original 10BASE5 Ethernet uses a thick coaxial cable as a shared medium. Its immediate successor 10BASE2 uses a thinner and more flexible cable that is

Nov 17, 2025

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

Mar 21, 2026

Can a gigabit switch be connected to a 100Mbps

Gigabit network cables are fully compatible with 100Mbps networks. Of course, the transmission rate of 100Mbps network cables is not as high as that of gigabit, so

May 22, 2026

How To Use A Fiber Optic Media Converter In Your

Connecting a fiber optic cable and a copper cable to a media converter can be done in the following ways: Connect Switch B's copper

May 07, 2026

Fiber Optic Internet Speeds | Verizon Business

Fiber-optic technology offers incredible upload speeds that are significantly faster than traditional cable-modem internet connections. With Verizon Fios Internet, small business owners can enjoy upload

Aug 01, 2025

@Grobe I have a Modem with optical fiber (300 mb), connected with a switch and this switch is connected to my DIR-825 router. I access the internet in all places: Modem: connect some

Jun 25, 2026

Fiber Cable Speed | Verizon Business

Fiber-optic technology offers incredible upload speeds that are significantly faster than traditional cable-modem internet connections. With Verizon Fios Internet, small business owners can enjoy upload

Apr 12, 2026

<100 Mbps on Gig network

Windows 11 might handle these settings differently than Windows 10, causing the slower speed when the second NIC is connected. First, try changing the Speed and Duplex settings of your

Jun 12, 2026

How to connect a new optic fibre to an ethernet switch

If you want to use fibre then buy a switch with 2 SFP ports for the house and switches with at least one sfp port for the remote buildings. At these distances, it doesn't really matter what

May 01, 2026

Online Bulk Cable Company | CableWholesale

As a premier online bulk cable company, CableWholesale carries a large inventory of computer cables, USB, HDMI, fiber optic, VGA cables, and more. Shop now!

Jan 09, 2026

Compare The Best UK Fibre Optic Broadband Deals

Compare the best fibre optic broadband deals in one place. Find fast, reliable internet plans and save on your next broadband package today.

Apr 18, 2026

Change Ethernet from 100Mbps to 1Gbps in Windows 11/10

Cat5 cable supports only up to 100 Mbps, whereas a Cat5e cable can support up to 1 Gbps and Cat6 up to 10 Gbps. If your ISP is providing you with

Jan 21, 2026

100mbps fiber Internet connection into 10/100 or 1gb switch...which?

Would I be better off plugging it into a gigabit port? I don't appear to be getting my full bandwidth to the internet through the core switch and am wondering if that is because of the port I

Mar 22, 2026

10 100 1000 Base T Explained: A Guide to Gigabit Ethernet

These modules allow switches or routers designed for optical transceivers to connect directly to twisted-pair copper networks while maintaining support for 10Mbps, 100Mbps, and 1Gbps Ethernet speeds.

Feb 05, 2026

Synchronous optical networking

Synchronous Optical Networking (SONET) and Synchronous Digital Hierarchy (SDH) are standardized protocols that transfer multiple digital bit streams synchronously over optical fiber using lasers or

Sep 15, 2025

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

With Auto-MDIX enabled, you can use either a straight-through or crossover type cable to connect to the other device, and the interface automatically corrects for any incorrect cabling.

Jun 02, 2026

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

May 21, 2026

Gigabit Ethernet switch from 1Gbps to 100Mbps back

Cable Box to Router: SC Fiber Optic Cable Router to PC: CAT 6 (UTP) / 240MHz / (20m/ 65ft Long) The router is provided from the ISP, which they

May 11, 2026

Ethernet Cables Types: Cat 3, 5, 5e, 6, 6a, 7, 8 Wires Explained

This tutorial explains the Definition of ethernet cables, ethernet cable types, shielded cables, and Ethernet cables categories like Cat 3, 5, 5E, 6, 6a, 7, 9 ETC.

May 16, 2026

Gigabit Ethernet

There are five physical layer standards for Gigabit Ethernet using optical fiber

Apr 20, 2026

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

100BASE FX SFP remains a widely used solution for deploying 100Mbps fiber connectivity in industrial, enterprise, and legacy Fast Ethernet networks. While Gigabit and higher-speed optics dominate

Feb 03, 2026

I would wire the modem into the routers WAN port, then connect one of the routers switch ports to the main switch. That's how I have mine set up and I have gigabit internet.

May 12, 2026

Fiber-Optic Internet | Plans Start at \$35/mo

While traditional cable internet uses copper wires, Fios uses fiber-optic lines made from tiny strands of glass, which means it can transmit data over long distances quickly to provide a reliable and

Jan 15, 2026

What's a Good Internet Speed? Find Out How Many

There isn't a magic formula that can tell you how much internet speed you need. You'll need to consider several factors specific to how your household

Oct 03, 2025

Gigabit Switches

A Gigabit switch helps boost network speed and usually supports speeds of 10/100/1000 Mbps for copper cables and 1000 Mbps for fiber optic cables. Here

Contact Us

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

Website: <https://piano-lessons.co.za>

Email: info@piano-lessons.co.za

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

