

Can I use one gigabit and one 10 gigabit optical module



Overview

Can a 10G SFP+ module in one switch communicate with a 1G module in another and negotiate?

The answer depends on the type of wiring and transceivers involved. For Ethernet over copper wiring, auto-negotiation is a supported feature. I have a 3650-24PD with 2 x 1GB and 2 x 10GB, interface are as follows. gi1/1/1,gi1/1/2, Te1/1/3 & Te1/1/4. Should I be able to use the last two 10Gb ports as 1 GB or are they only 10Gb usable?

If I can use them at 1 GB what is needed in order to get that to work?

TIA 09-01-2021 11:21 AM Can you. Will 1G SFP optics work with 10Gb SFP+ ports on a 10Gb switch?

Or will 10Gb SFP+ run at 1Gb to link gigabit switches?

What if using SFP+ ports on a switch but SFP on the other?

Here we'll reveal the mask of SFP to SFP+ compatibility. Can 1G SFP Optics Run at 10G SFP+ Port?

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

Can. F5 manufactures and ships two different SFP optics that look identical in size and shape: the one gigabit SFP and 10 gigabit SFP+ modules. You can identify the...

Article Content

Mar 15, 2026

Connecting fiber between a 1G SFP and a 10G SFP, will it work

TL;DR -- Many switches will support a 1G SFP in a SFP+ port, and since there are few 10/1G modules that can be toggled between rates, acquire and use a 1G SFP module that will work with your switch.

Apr 27, 2026

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

Ideally I'd like to have a gigabit and 10/100 running on the same network so that the older boxes could use the latter while the machines that have gigabit ethernet onboard could run at modern speeds. Is

Sep 26, 2025

Optical Fiber and 10 Gigabit Ethernet

Optical Fiber Standardization A number of domestic and international organizations are involved in management of the optical and mechanical parameters of optical fiber in both bare and cabled form,

Jun 14, 2026

10-Gigabit Ethernet

The main kinds of 10-gigabit Ethernet are listed in the table below. Multimode fiber with the 0.85 μ (short) wavelength is used for medium distances,

Apr 14, 2026

Are 10G Optical Modules Compatible with Gigabit Optical Ports

When it comes to compatibility between optical networking equipment and optical modules, it is critical to ensure a proper match. In this installment, we will explore the compatibility

Nov 09, 2025

Can the SFP+ 10G port be connected to the SFP 1G

To ensure normal operation of the network, we recommend using modules with the same speed as the port, and the optical modules used at both

Sep 14, 2025

What is the difference between a Gigabit optical module and a 10 ...

As we all know, there are various types of modules, the most typical of which include gigabit optical module and 10 gigabit optical module. Through the literal meaning we can understand

May 03, 2026

What's the difference between Gigabit Optical Module vs 10 Gigabit ...

10 Gigabit Optical Module: The Choice for High-Bandwidth Applications 10Gbps optical module is an important development direction in future network technology, which provides 10Gbps

Dec 15, 2025

Is SFP Compatible With SFP+? Can 10G SFP+ Run at 1G SFP

The above lists three network switches of which 10G ports can take 1Gb SFP modules. To make sure the network transmission is smooth, you need to consult the switch vendor to ensure the

Dec 07, 2025

What is 10 gigabit ethernet standard?

This guide will explain 10 gigabit ethernet computer standard and detail the kinds of interfaces, optical fiber, and port types involved.

Jan 26, 2026

Gigabit vs. 10 Gigabit Optical Transceivers: What's the Difference?

Gigabit optical modules and 10 Gigabit optical modules can generally transmit hundreds of meters on multimode fibers, and can transmit longer on single-mode fibers.

May 13, 2026

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

This guide focuses on what a gigabit SFP module is, how it works, the main types available, and how to choose the right one for your network. Rather than diving into unnecessary optical theory, the

Dec 12, 2025

Understanding 10 Gigabit Ethernet: A Comprehensive

Uncover the power of 10 Gigabit Ethernet and its impact on network speed and efficiency. Explore the benefits, uses, and differences in our

Oct 12, 2025

10 Gigabit Ethernet | 10GE Types and Cable

Ever since the commercial introduction of Ethernet, it has evolved in many ways. The parameters have changed according to the industrial

Dec 23, 2025

Speed Fix: Gigabit vs 10GbE Ethernet Cable Comparison

Unsure whether to choose Gigabit or 10-Gigabit Ethernet cables? Learn the pros, cons, and ideal applications for each in this quick comparison guide.

Sep 04, 2025

10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Intellinet Network Solutions 10GBase-LR Fiber SFP+ Optical Transceiver Module, model 507479, is the right choice when it comes to connecting two buildings at 10 GbE

Feb 14, 2026

sfp-10g and 1 g

If the two switches are not directly connected by the same fiber, i.e. there's some intermediate device, then you can often use totally different transceivers and/or fiber media

May 15, 2026

Differentiating the 1 gigabit SFP and 10 gigabit SFP+ optic modules

F5 manufactures and ships two different SFP optics that look identical in size and shape: the one gigabit SFP and 10 gigabit SFP+ modules. You can identify the modules by information

Nov 04, 2025

OEM 10GbE Optics Cheat Sheet | Tech Guide | Curvature

Curvature offers OEM optics cheat sheet that provides details such as module types and optical standards of 10GbE XENPAKs optics from the OEM.

Apr 20, 2026

SFP-1G-SX Explained: The Essential Guide to 1G

The SFP-1G-SX module is a proven, reliable, and cost-effective solution for 1 Gigabit short-range fiber optic connectivity. Understanding its

Apr 28, 2026

What's the difference between Gigabit Optical Module vs 10 Gigabit ...

Gigabit optical modules continue to dominate today as a balanced bandwidth and cost option, while 10 Gigabit optical modules have the advantage of meeting the demands of high

Aug 05, 2025

Everything You Need to Know About a 10G Fiber Optic

Q: How does a business environment with high data transmission needs benefit from a 10G NIC? Q: Can I use my 10G Fiber Optic Network Card

Jun 19, 2026

10 Gigabit Ethernet Fiber Design Considerations

The 10 Gigabit Ethernet operating distances provided in the tables below are limited by the channel insertion loss, the cable bandwidth for multimode fiber, and the optical transceiver characteristics

Sep 01, 2025

SFP vs SFP+: The OEM Guide to 1G and 10G Optical

The answer depends on which direction you are going: Can I plug a 1G SFP into a 10G SFP+ port? Generally, Yes. Most enterprise switches (Cisco,

May 04, 2026

Cisco 10 Gigabit Modules

Cisco currently supports many different port types where each one is optimized for the reach and transmission media demanded by a particular 10 Gigabit

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Understanding SFP, Optical Modules, and Gigabit

Discover the features of SFP, optical modules, and gigabit transceivers for fast data transmission and network connectivity.

Sep 23, 2025

Understanding SFP to SFP+ Compatibility: A

When discussing whether 1G SFP modules can operate in 10G SFP+ ports, the answer is not as straightforward as it may seem. Compatibility heavily

Jan 17, 2026

Is SFP Compatible With SFP+? Can 10G SFP+ Run at 1G SFP Gigabit

Everything you should know about the issue of SFP to SFP+ compatibility. Will 1G SFP optics work with 10Gb SFP+ ports on a 10Gb switch? Or will 10Gb SFP+ run at 1Gb to link gigabit

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