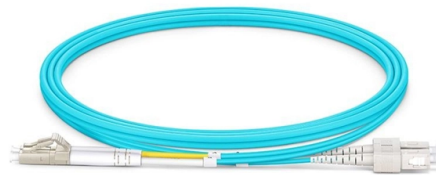


Gigabit switch with 100Mbps optical module



Article Overview

A standard Gigabit SFP cannot be set to 100 Mbps, but specialized modules like Cisco GLC-GE-100FX allow a Gigabit port to carry a 100 Mbps optical link.

How It Works

Standard 1000BASE-SX or 1000BASE-LX SFPs are fixed at 1 Gbps and cannot be reconfigured to 100 Mbps because their optical PHY is designed for Gigabit speeds only . To connect a Gigabit Ethernet SFP port to a legacy 100 Mbps fiber link, you need a dual-rate or specialized 100BASE-FX SFP, such as the Cisco GLC-GE-100FX. This module presents a 1.25 Gbps SGMII signal to the host port while converting it internally to a 100 Mbps Fast Ethernet optical signal on the fiber side . This allows the Gigabit port to remain operational without renegotiating its line speed.

Configuration Considerations

- On Cisco devices, the GLC-GE-100FX module is hot-swappable and supports full-duplex 100 Mbps connectivity over multimode fiber up to 2 km .
- On Extreme Networks switches, 100 FX SFPs must have their speed explicitly configured to 100 Mbps, as autonegotiation alone may not suffice .
- On Juniper EX/QFX devices, when connecting a 100 Mbps link to a Gigabit SFP port, you must configure the link partner and the port speed to 100 Mbps and set duplex to full duplex if autonegotiation is disabled .

Practical Deployment

Article Content

Switch Products | FXC Inc.

8-port 10/100/1000 Mbps tap-type Gigabit Ethernet Switch. Product information of FXC. We introduce products of switch.

Arista Optics Modules and Cables

Each module is optimized for different media and reach (ranging from 0.5 meters to 80 kilometers). All interface speeds, from 1G to

Cisco MGE SFP Modules Cisco Small Business Network Accessories

Easily connect switches with fiber-optic networking modules Highlights Adds fiber-optic connectivity to Cisco 100 to

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

Multi-Mode 100Mbps Fiber Transceiver SFP/Mini-GBIC

Cisco GLC-FE-100FX Compatible SFP Module - 100BASE-FX - 100Mbps Multimode Fiber MMF Optic

MGD Switch

LGB5100 Series Gigabit Ethernet (1000-Mbps) Managed Switch - SFP, 100/1000-Mbps Dual-Media SFP This layer 2 switch delivers

Do I Need a Gigabit Switch or 10/100Mbps Switch? – Fiber Optic Blog

Meanwhile, Ethernet switches have also escalated from 10/100Mbps switches to Gigabit switches, 10GbE switch, and

100mb SFP Module in Gigabit Cisco 3850

Hi, This really depends on the SFP modules that you have, some modules like 100/1000BASE-LX SFP support 2

Cisco Catalyst 6900 Series 40 Gigabit Ethernet Interface Module for ...

This data sheet describes the benefits, specifications, and ordering information for the Cisco Catalyst 6500 Series

Media Converter

GT-tech® is a brand of 10Gtek's Media Converter. 100M Media Converter, Switch, POE Switch.

Catalyst 6500 Series 10

This data sheet describes the benefits, specifications, and ordering information for the Catalyst 6500 Series 10- and

Cisco MGE SFP Modules Cisco Small Business Network Accessories

The Cisco MGE transceivers provide fast, reliable connectivity between switches located on different floors, in separate buildings, or

Cisco 100 Gigabit Modules

Explore Cisco 100 Gigabit Ethernet Modules, designed to deliver ultra-high-speed connectivity, scalability, and performance for

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

A 100BASE FX SFP is a 100Mbps Fast Ethernet optical transceiver designed to transmit data over multimode fiber using the

Web Smart Switch

Layer 2 web smart switch that includes 10/100/1000-Mbps RJ45 ports and two SFP ports for fiber Gigabit Ethernet uplinks with an

Ethernet over fiber optic converter, Gigabit Ethernet Fiber

The Thor F-GET-TR-SFP Ethernet Transceiver with SFP is designed for transporting a Gigabit Ethernet port over a fiber link from

1.25G Mini Fiber Optical Switch PCBA Board

High-performance 1.25G Mini Fiber Optical Switch This PCBA-mini-SFP board delivers reliable connectivity with integrated

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

Shenzhen Marstars Technology Co.,Ltd

Fiber Optic Network Switches MarStars manufactures a wide range of fiber optic switches that provide links for your 10Base,

Web Smart Switch

Looking to grow your office network the smart way? The Eco Fanless Gigabit Smart Switch enables you to connect to up to 10

Complete Guide to Choosing the Right 100M Optical Transceiver

In the vast ecosystem of network infrastructure, the humble 100M optical transceiver (or 100M SFP module) remains a

AGM731F | Modules and Accessories | Switches | Business | NETGEAR

The AGM731F ProSAFE® SFP 1G fiber module features an LC duplex connector and meets SFP GBIC standards for use in any

Cisco Fast Ethernet SFP Modules

The Cisco® 100BASE-X Small Form-Factor Pluggable (SFP) device is a hot-swappable SFP Modules

Moxa's small form-factor pluggable transceiver (SFP) Ethernet fiber modules for Gigabit Ethernet provide coverage across a wide

TP-Link LS108GP 8-Port Gigabit Desktop Ethernet Switch

TP-Link LS108GP 8-Port Gigabit Desktop Ethernet Switch with 8-Port PoE+, 62 W PoE Budget, PoE Auto Recovery, Plug & Play,

DEM-211 SFP 100Base-FX Multi-mode Fibre Transceiver | D-Link

Further, in our effort to offer a full product portfolio, D-Link has developed the DEM-210 100BASE-FX SFP transceiver which can plug

Shenzhen Marstars Technology Co.,Ltd

The 5-port fiber switch is with 100M optical fiber port and 10/100M Ethernet RJ45 ports. The product is possessed of stable

Contact Us

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