

What devices currently use GBIC optical modules



Overview

Although seldomly used today, GBIC's are still available for the 1.25Gbps data rate, being mostly used in Ethernet switches, but also in special converters like our FIB1-1000TG GBIC to UTP fiber media converter. Its primary job is to convert electrical signals into optical signals (and vice versa), enabling data transmission over fiber optic. Disclaimer: Cisco makes the data in this tool available for informational purposes. Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice. Key characteristics include: Speed: 1 Gbps, 10 Gbps, 25 Gbps, or higher. The industry-standard Cisco Small Form-Factor Pluggable (SFP) Gigabit Interface Converter (Figure 1) links your switches and routers to the network. The hot-swappable input/output device plugs into a Gigabit Ethernet port or slot. While both serve the essential purpose of connecting network devices (like switches and routers) to fiber optic or copper cabling, they are. The optical module serves as a crucial component in optical fiber communication systems, operating at the physical layer, which is the lowest layer in the OSI model.

Article Content

Sep 03, 2025

What is the Use of GBIC Module?

GBIC (Gigabit Interface Converter) transceiver, just as its name implies, it with one end to plug into a gigabit Ethernet

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GBIC Modules

GBIC series from Radiant are high performance and cost-effective modules for serial optical data communication applications

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The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right

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SFP vs. GBIC: what's the difference?

The GBIC standard, first defined in 1995, was the earliest hot-pluggable form factor in the optical transceiver industry. GBIC modules

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SFP Module: What's It and How to Choose It?

SFP module is a compact, hot-pluggable optical transceiver module widely used for telecommunication and data

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GBIC vs Mini GBIC (SFP): Differences and Choose Guide

GBIC modules and SFP modules are input/output (I/O) devices for plugging into network switches or routers with

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Gigabit interface converter

1000BASE-SX GBIC Gigabit interface converter (GBIC) is a standard for transceivers. First defined in 1995, it was used with Gigabit

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Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable

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Cisco Optics-to-Device Compatibility Matrix

Comprehensive compatibility information for Cisco optical transceivers and network devices Disclaimer: Cisco makes the data in this

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GBIC Fiber Optic Transceiver Basics | Cables Plus USA

In networking, a GBIC is used to interface a fiber optic system with an Ethernet system, such as Fibre Channel and Gigabit Ethernet.

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GBIC vs SFP --

Gigabit optical interface modules are fundamental components in modern fiber optic

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SFP or GBIC – Why, when, and which one should you

The fiber optic market is filled with options that will improve your connectivity in a matter of

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GBIC Explained: The Vintage Workhorse of Fiber Optic Networking

A GBIC is a hot-swappable, modular optical transceiver that interfaces a network device (like a switch or router) with

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SFP vs GBIC Understanding the Key Differences

While both serve the essential purpose of connecting network devices (like switches and routers) to fiber optic or

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GBIC vs SFP Transceivers: Key Differences, Compatibility, and

The GBIC (Gigabit Interface Converter) is one of the earliest standardized hot-swappable optical transceivers for

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Discover the Key Differences: GBIC vs SFP Modules

When talking about transceiver modules, GBIC (Gigabit Interface Converter) and SFP (Small Form-factor Pluggable)

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Gigabit Interface Converter (GBIC): Definition & Technical Guide

The module converts electrical serial data signals into optical signals (and vice-versa) to support fiber-optic or copper

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GBIC vs SFP Modules: Understanding the Key Differences and How

Discover the key differences between GBIC and SFP modules, including size, port density, and more. Find out how to

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GBIC modules - Tagged "category_fiber-optic-devices" - Fosco Connect

GBIC optical modules are the first form pluggable fiber optic transceiver modules used in the fiber communications industry. Although

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What is a Gigabit Interface Converter (GBIC)?

Gigabit Interface Converter (GBIC) is a transceiver that provides the interface between networking devices

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Cisco SFP vs GBIC vs XFP vs SFP+: The Practical Optical

Learn the differences between SFP, SFP+, GBIC, and XFP modules - speeds, distances, and compatibility, from

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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

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What is Optical Link Module?

Learn about the different types of optical link modules, their functions, packaging, and key technical concepts like 400G, PAM4, and

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SFF vs GBIC: Decoding the Fiber Optic Transceiver Battle

[Discover LINK-PP Modules Today!] Conclusion The GBIC vs. SFF debate is a classic example of a trade-off

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Different types of transceivers(GBIC, SFP, SFP+, SFP28, QSFP,

The devices are economical because they eliminate the necessity for replacing entire boards at the system level.

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What is "gbic"?

A: The primary use of a gbic is to provide flexibility in connecting different types of media, such as optical fiber or

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Cisco Gigabit Ethernet GBIC/SFP Modules

Cisco offers a range of GBIC transceivers and Small Form-factor Pluggables (SFP) transceivers for Gigabit Ethernet and Fibre

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Understanding Optical Transceiver Form Factors: Evolution from GBIC

The journey from the original Gigabit Interface Converter (GBIC) in the late 1990s to today's Quad Small Form-factor

Contact Us

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