

Optical module interface gbic



Overview

A GBIC is a hot-swappable, modular optical transceiver that interfaces a network device (like a switch or router) with a fiber optic or copper networking cable. Its primary job is to convert electrical signals into optical signals (and vice versa), enabling data transmission over fiber optic. We offer a small choice of standard GBIC modules as a complement to our fiber-optic based products. These modules come from various third-party manufacturers. For your convenience, we specify them by their technical specifications so that you can order them according to their demanded properties. GBIC, short for 'Gigabit Interface Converter', first launched in 1995 by GBIC MSA INF-8053, is the earliest hot-pluggable form factor in the optical transceiver industry. Initially designed for Fibre Channel and Gigabit Ethernet applications, it also supported 100M and 2. Key characteristics include: Speed: 1 Gbps, 10 Gbps, 25 Gbps, or higher.



Article Content

Dec 21, 2025

SFP vs. GBIC: what's the difference?

GBIC (Gigabit Interface Converter) The GBIC standard, first defined in 1995, was the earliest hot-pluggable form factor in the optical transceiver industry. GBIC modules convert gigabit electrical

Jan 21, 2026

What is "gbic"?

GBIC technology combines electronics and optics to convert electrical signals into optical signals that can be transmitted over fiber optic cabling. It is a

Feb 15, 2026

Fiber Optic Transceivers | SFP, QSFP & GBIC | High

SFP, QSFP, and GBIC Modules / Transceivers Our SFP (Small Form-Factor Pluggable), QSFP (Quad Small Form-factor Pluggable), and GBIC (Gigabit

Jul 13, 2025

Cisco SFP vs GBIC vs XFP vs SFP+: A Practical

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

Nov 29, 2025

GBIC (Gigabit Interface Converter) modules

Connect networking equipment with 1.25Gbps GBIC modules. Available in single-mode and multi-mode fiber and copper cabling options, for switches, routers, and network interface cards.

Jul 23, 2025

GBIC Explained: The Vintage Workhorse of Fiber Optic

What is a GBIC (Gigabit Interface Converter)? A GBIC is a hot-swappable, modular optical transceiver that interfaces a network device (like a

Nov 04, 2025

What is GBIC? Everything You Need to Know (2024)

What is GBIC? GBIC stands for Gigabit Interface Converter, sometimes also called GBIC converter. It is a hot-pluggable optical transceiver

Dec 13, 2025

A Beginner's Guide: What is GBIC?

The GBIC port acts as an entry point, the GBIC connector is the interface on the transceiver, and the transceiver is the vital communication

Jan 20, 2026

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM Duplex LC SMF Optical Transceiver Module Applicable to data center and campus networks, enabling cost-effective, efficient, and high

Oct 24, 2025

A Beginner's Guide: What is GBIC?

GBIC, short for Gigabit Interface Converter, is a versatile optical transceiver that converts serial electric signals into optical ones. It seamlessly fits

Jan 18, 2026

Cisco SFP vs GBIC vs XFP vs SFP+: A Practical

Common generations of modules: GBIC - the first generation of Gigabit optical interface converters. SFP - Small Form-factor Pluggable, or "mini-GBIC."

Dec 11, 2025

GBIC vs SFP vs Mini GBIC: What is the difference?

In this post, we will systematically and comprehensively compare those terms, GBIC, SFP, and Mini GBIC, to help you understand the differences,

May 20, 2026

GBIC Dual SC Optical Transceivers

The following bit significant indicators define the electronic or optical interfaces that are supported by the GBIC. At least one bit shall be set in this field.

May 12, 2026

What is GBIC Module?

What is GBIC? Short for gigabit interface converter, GBIC module is a transceiver which converts electric currents to optical signals and the other way

Jun 12, 2026

Everything You Have to Learn About GBIC and SFP

GBIC stands for Gigabit Interface Converter, a standard transceiver module used to connect Gigabit Ethernet ports to fiber-optic networks. GBIC

Mar 30, 2026

What is "gbic"?

GBIC modules consist of several components: a transmitter, receiver, laser driver, post-amplifier, and diagnostic monitoring interface. The transmission

Apr 19, 2026

Cisco 1000BASE-SX GBIC

Cisco's industry-standard Gigabit Interface Converter (GBIC) is a hot-swappable input/output device that plugs into a Gigabit Ethernet port/slot, linking the port with the fiber-optic network.

Mar 20, 2026

D-Link DIS-S310LX network transceiver module Fiber optic 1000

D-Link DIS-S310LX network transceiver module Fiber optic 1000 Mbit/s mini-GBIC Mini-GBIC SFP - 1000BaseLX, SMF, 10 km More Info

Sep 14, 2025

Gigabit Interface Converter

Definition A Gigabit Interface Converter (GBIC) is a transceiver module used in the field of telecommunications and data communications. Its primary function is to convert electrical signals

Jun 28, 2025

GBIC Explained: The Vintage Workhorse of Fiber Optic

Conclusion The GBIC module was a cornerstone of network flexibility in its day. While SFP, SFP+, and other advanced optics have taken the mantle for

Mar 28, 2026

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

When it comes to transceivers, there are multiple types of modules you can choose from (GBIC, SFP, SFP+, QSFP, X2, CFP, and others), no matter

Nov 26, 2025

GBIC Modules

» Products » Optical Modules » GBIC Modules GBIC Modules Gigabit Interface Converter Modules We offer a small choice of standard GBIC modules as a

Jan 02, 2026

Choosing Between GBIC vs. SFP Modules: A

What Is the GBIC Module? A GBIC (Gigabit Interface Converter) is a hot-swappable input/output device that connects a Gigabit Ethernet port to a

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GBIC Modules

We offer a small choice of standard GBIC modules as a complement to our fiber-optic based products. These modules come from various third-party

Jan 04, 2026

Gigabit Interface Converter (GBIC): Definition & Technical Guide

GBIC modules install directly into dedicated interface slots on switches, routers, and network interface platforms. GBIC emerged during the late 1990s to provide a standardized modular

Apr 26, 2026

What is a Gigabit Interface Converter (GBIC)?

Gigabit Interface Converter (GBIC) is a transceiver that provides the interface between networking devices and fiber optic cables. GBIC is a hot-swappable

Nov 05, 2025

SFP vs GBIC Understanding the Key Differences

SFP vs GBIC: Compare size, speed, compatibility, and cost to choose the best module for your 2025 network. See why SFP is preferred for new setups.

Mar 25, 2026

Gigabit interface converter

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

Dec 26, 2025

The Ultimate Guide to SFP Modules (2026): Types, Speeds

The SFP (Small Form-factor Pluggable) is a compact, hot-pluggable optical transceiver module used for telecommunication and data communications applications. Before its birth, The Networking world

Contact Us

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

Website: <https://www.elagage-lorrain.fr>

Email: sales@elagage-lorrain.fr

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

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