

# Cost of Gigabit Ethernet Optical Module



## Article Overview

Gigabit Ethernet optical modules (1G SFP/GBIC) typically range from \$10 to \$50 per module, depending on type, range, and industrial specifications.

### Pricing Overview

- **Standard 1G SFP Modules:** These are designed for short-range multimode or long-range singlemode fiber connections. Prices generally range from \$10 to \$30 per module for standard commercial use, making them cost-effective for most enterprise networks (Lanshack, FS) .
- **Industrial SFP Modules:** Built to withstand extreme temperatures and harsh environments, industrial-grade modules cost more, typically \$30 to \$50 per module, due to enhanced durability and reliability (Lanshack) .
- **Copper vs Fiber Options:** 1G modules are available for both fiber (1000BASE-SX, 1000BASE-LX/LH) and copper (1000BASE-T) connections. Copper modules are usually on the lower end of the price spectrum, while fiber modules, especially long-range singlemode, are slightly higher (FS) .

### Factors Affecting Price

- **Transmission Distance:** Short-range multimode modules (up to 550 meters) are cheaper than long-range singlemode modules (up to 160 km) .
- **Connector Type:** Standard LC connectors are common and affordable, while specialized connectors or WDM single-fiber modules may increase cost .
- **Vendor and Brand:** OEM modules from Cisco, Juniper, or other major brands are more expensive than third-party compatible modules, which are widely available at lower prices ....

## Article Content

### Optical Transceivers

Optical transceivers have revolutionized data transmission, providing high-speed, long-distance, and secure data transmission

### 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

### SFP Module Types, SFP Transceiver Price List

FS SFP module solutions range from Fast Ethernet to Gigabit Ethernet speeds. fibre and copper SFP transceivers can be selected in

### Gigabit Ethernet Fiber Optic Link

Ethernet fiber optic link for reliable, full duplex transmission of Ethernet signals over two single-mode optical fibers from 1m-50km.

### Cost trends of Ethernet switches and optical modules ...

Download scientific diagram | Cost trends of Ethernet switches and optical modules from 2010 to 2023; the values for 2020-2023 are

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

A gigabit SFP module is a hot-pluggable transceiver designed to deliver 1Gbps Ethernet connectivity over fiber or copper, and it

### 100 Gigabit Ethernet

The 40/100 Gigabit Ethernet standards encompass a number of different Ethernet physical layer (PHY) specifications. A networking

### March 2024 Ethernet Optics

Report Abstract This report analyzes the impact of growing data traffic and the changing architecture of data centers on the market

### SFP Fiber Optic Modules

\$45.34 Networx SFP 8 Gigabit Fiber Module - 2/4/8 Gbps Fiber Channel, LC Multimode, 300m, 850nm Get the most out of your

### Optical Transceiver Modules, HUAWEI Cisco SFP SFP+ QSFP

Deploy software configurable line rates and modulation schemes for long-reach amplified DWDM systems or dark fiber systems.

### Cisco 40 Gigabit Modules

The Cisco QSFP BiDi transceiver offers the industry's most cost-effective solution for 40-Gbps connectivity. By transmitting full

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise

1G SFP Optical Transceivers | Transceiver Modules

Store.QSFPTEK 1G SFP transceivers provide wide selection for various Gigabit Ethernet applications, such as 100+ vendors

Optical Modules Market Research Report 2034

It is reshaping the optical modules market by lowering per-bit costs for 400G transceivers toward a target of sub-\$1 per gigabit by

Gigabit Ethernet SFP Modules

Shop Dell Gigabit Ethernet SFP Modules for fast, reliable network connectivity. Upgrade your network with quality SFP modules from

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Amazon : Media Converter

Check each product page for other buying options. Fiber optic media converters provide the bridge you need to extend your network.

Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to

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Gigabit Ethernet SFP Modules

A Gigabit Ethernet SFP module is a compact, hot-swappable transceiver that plugs into the SFP port of a compatible network device

Buy Transceivers - SFP, SFP+, and QSFP Modules

QSFPs offer significantly higher data rates, starting at 40 GB/s, with no upper limit in sight (as of 2022, up to 800 GB/s is possible).

## Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

## Contact Us

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