

Cost of 10 Gigabit Optical Modules



AI Overview

The price of a 10G SFP+ optical module typically ranges from \$10 to \$300, depending on type, distance, and brand. Understanding Price Ranges The cost of a 10G SFP+ module varies widely due to factors such as transmission distance, optical technology, and vendor branding. Short-range (SR) multimode modules for distances up to a few hundred meters are usually the most affordable, often priced between \$20 and \$60 for compatible modules, while long-range (LR) single-mode modules for distances up to 10 km can cost \$100–\$300 or more, especially if purchased from major OEMs like Cisco or Juniper . Branded modules are generally more expensive due to vendor support, warranty, and compatibility guarantees . Factors Affecting Price

Transmission Distance: Longer distances require higher-quality optics and tighter manufacturing tolerances, increasing cost .

Optical Technology: Modules using advanced technologies like tunable DWDM or enhanced monitoring interfaces are priced higher due to performance and stability benefits .

Brand and Compatibility: OEM-branded modules often cost multiple times more than functionally equivalent compatible modules, while generic or third-party modules offer cost savings but may have limited warranty or support .

Power Consumption and Features: Low-power modules or those with enhanced monitoring and multi-rate support may carry a premium .

How to Check Current Prices

Online Retailers: Websites like FS.com list modules with prices, e.g., a 10G SR module for \$25 and a 10G LR module for \$34 .

Specialized Distributors: Companies like Cables on Demand provide pricing for Cisco, HP, and Brocade-ready modules, including SR and LR options .

Price Guides: Blogs and procurement guides summarize typical price ranges and explain cost drivers, helping buyers make informed decisions .

Practical Tips

For data center or enterprise networks, compatible SR modules often provide the best cost-per-port for short distances. For backbone or long-distance links, LR modules are more suitable despite...

Article Content

Cisco SFP Modules for Gigabit Ethernet Applications

Cost-effective Small Form-Factor Pluggable (SFP) transceivers for Gigabit Ethernet applications Product overview The industry-standard Cisco

Optical Protection Switch

Changing the switching/routing hardware 10 Gigabit Ethernet, however, brings many challenges, as maximum rated optical budget of these SFP modules is restricted

10GbE SFP+ Transceiver Modules

FS 10G SFP+ transceiver module solutions provide a wide variety of reliable 10 Gigabit Ethernet connectivity options for data centre, enterprise, and service

Optic Modules Datasheet

4 Optic Modules Data Sheet ... SFP (form factor) = small form-factor pluggable transceiver SMF (media) = single-mode fiber-optic MMF (media) = multimode fiber-optic XFP (form factor) = 10-gigabit small

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise

10G BiDi SFP+ 20km Tx1270/Rx1330

10GBASE-BX20 10G BiDi SFP+, 20km single fiber, Tx1270/Rx1330nm, 9dB budget, DOM. Matched-pair module. EU stock + lifetime warranty. €16.33.

Berns gigabit sfp transceiver $\propto$ Lc photoelectric conversion ...

Have you ever experienced: the network cable in the computer room suddenly breaks in the middle of pulling, and the fiber optic interface does not match and you stare blankly; temporary

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco ® family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower

10GbE SFP+ Transceivers

These compact, hot-swappable modules are engineered to support 10 Gbps data rates, making them ideal for a wide range of applications, from enterprise data centers to creative studios and research

Optical Transceiver Pricing: Cost Ranges by Speed and

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical guidance for choosing the right

10G SFP+ Transceiver Modules& 10Gbase-T | FiberMall

With its advantages of miniaturization and low cost, SFP meets the high-density optical module requirements of the equipment. From the introduction of the

800G Client Optics in the Data Center

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes of optical modules to build out switching fabric and router

Small Form-factor Pluggable

Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module

OSFP vs QSFP-DD Comparison | 800G Optical Module Form Factors

Detailed analysis of OSFP and QSFP-DD form factors for 800G optical modules. Compare specifications, thermal management, backward compatibility, and choose the right solution

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G Optical modules Features and benefits of Cisco QSFP modules Hot-swappable input/output device that plugs into a 100G Gigabit

10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver

Get 10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver from ETU-Link Technology CO.,LTD,we supply excellent SFP+ 10G BiDi 70KM SFP Module. Long using life,high

SFP Optical Transceiver | SFP Optical Module | Perle

Perle SFP Optical Transceivers are designed for use with Perle SFP Media Converters, Industrial Ethernet Switches, IOLAN SCG Console Servers and third

What Is LPO Optical Transceiver Module?

To illustrate, let's consider optical modules, critical devices in optical networks and widely used across the industry. Their power consumption and

How Much Does a 10G SFP+ Optical Module Cost?

If you're planning a network upgrade or building a new system, consider Svelol's 10G SFP+ optical modules. Experience the blend of high

10G SFP+ Optical Transceivers | Transceiver Module

Click to get your 10G SFP+ transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

Cisco 10GBASE-LR SFP Module for 10

Available at a lower price from other sellers that may not offer free Prime shipping.

SFP+ AOC CBO SFP-AOC-10G-5M 10G 5m | AiO.lv

Product information Description The BlueOptics SFP+ Active Optical Cable CBO SFP-AOC-10G-5M is a factory-terminated 10 Gigabit AOC designed for direct connection between SFP+ ports.

10G SFP Price Guide: How Much Does a 10G SFP Module Cost

Learn the latest 10G SFP price ranges, key cost factors, brand comparisons, and how to buy reliable 10G SFP modules at the best value.

Alcatel-Lucent (Nokia) 3HE00564CA 01 10GBASE-LR XFP Optical

The Alcatel-Lucent (Nokia) 3HE00564CA 01 is a genuine original 10GBASE-LR XFP optical transceiver, manufactured by Finisar for Nokia/Alcatel-Lucent. Designed for carrier-grade 10 Gigabit Ethernet

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