

Price of 10GPON optical module



AI Overview

The price of a 10G optical module typically ranges from \$10 to \$300, depending on type, distance, and brand. Price Range and Factors The cost of a 10G SFP+ module varies widely: Short-Range (SR) Multimode Modules: Usually at the lower end of the price spectrum, around \$10-\$50, suitable for distances up to 300 meters using multimode fiber. Long-Range (LR) Single-Mode Modules: Priced higher, often \$100-\$300, supporting distances up to 10 km with single-mode fiber. Brand Influence: Modules from major vendors like Cisco, HP, or Brocade are often more expensive due to branding, support contracts, and vendor lock-in, even if functionally similar to compatible third-party modules. Transmission Distance and Optical Technology: Longer distances and higher optical power requirements increase cost. LR modules require tighter manufacturing tolerances, contributing to higher prices. Practical Considerations Compatibility: Ensure the module matches your switch or router specifications. Compatible modules can offer significant savings without sacrificing performance. Power Consumption: Most 10G SFP+ modules consume less than 800 mW, but this can vary slightly by model. Use Case: Data center deployments often favor SR modules for cost efficiency, while backbone or enterprise links may require LR modules for longer distances. In summary, for a standard 10G optical module, you can expect to pay \$10-\$50 for SR multimode modules and \$100-\$300 for LR single-mode modules, with branded options potentially costing more. Choosing the right module depends on your network distance requirements, compatibility, and budget.



Article Content

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What Is an SFP and How It Works Explained

SFP Module Types The SFP transceiver for fiber optics is designed to work with the bulk of modern networks. If you're working with copper connections, you will primarily find 1000BASE-T and

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Differences Between Optical Modules SFP, SFP+, CFP, XFP, QSFP?

At present, 40G optical module and 100G optical module price is too high, power consumption is too large, and 10G optical module rate can not meet the network demand, so 25G

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Versatile Testing Capabilities: The Mini PON Optical Power Meter Handheld OPM Module Functions 3239C is designed for both traditional and next-generation PON networks. Comprehensive

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What Is an Optical Distribution Network (ODN)? – The Ultimate Guide

□□ What Is an Optical Distribution Network (ODN)? An Optical Distribution Network is a passive optical transmission system composed of optical fibers, splitters, distribution frames, and

XGS-PON SFP Module 10G

XGS-PON SFP module from CONBIC is a powerful fibre optic transceiver for compatible FRITZ!Box fibre routers and allows a stable and efficient use of modern XGS-PON networks.

Progress of ITU-T higher speed passive optical network (50G-PON ...

Progress of ITU-T higher speed passive optical network (50G-PON) standardization
Dezhi Zhang,^{1,*} Dekun Liu,² Xuming Wu,² AND Derek Nasset³

Fiber Optical Transceiver Module Manufacturer,

Sopto manufactures and supplies cost-effective optical transceiver modules.

AI Drives Doubling of 800G Optical Transceiver

Furthermore, driven by escalating demands from AI technology, shipments of 800G optical transceivers are projected to grow by 100% year-over-year in 2025. The

10G EPON ONU/XG-PON/XGS-PON Archives

Tags: 10G ONU, FTTH, LL-XS1010, ONU Stick, SFP+ ONU, WAS-110, x-onu-sfpp, XG-PON ONU, XGPON, XGS-PON ONU, XGSPON STICK, XGSPONST2000

AI + FTTR at CIOE 2026: Information and

CIOE – Information and Communication Expo will highlight core chips adapted for high-speed optical modules, high-end optical modules supporting AI computing

The Comprehensive Guide to PON Architecture: Mastering OLT,

Comprehensive guide to Passive Optical Networks (PON), covering OLT, ODN, ONU/ONT, GPON/XGS-PON/NG-PON2 standards, deployment strategies, and FTTH network

SFP Optical Transceiver Modules for Long Distance: A Complete

As data demands surge and physical distances expand, choosing the right long-distance SFP module is crucial for maintaining signal integrity and cost-effectiveness. Whether you're building

Optical Communication Development in China During

This article is an overview on optical communication development in P. R. China during the past 30 years. Based on the initial research and

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Optical Transceivers: Price vs Cost Considerations

The lowest price is not always the lowest cost. When sourcing optical transceivers, many buyers compare prices first. That makes sense. But for real network deployment, price should not be the ...

Fibre 10Gpon Uplink Module 12V Price Original Btpon Fttr 10G Bd

Fibre 10Gpon Uplink Module 12V Price Original Btpon Fttr 10G Bd Mini Optical Network Con Puertos Manufacturer Gpon Olt 4 Ports

OPTICAL MODULE 10G Price

10GBASE Active Optical SFP+ Cable, 5M REMANUFACTURED. SP ONSITE 8X5X4 CPAK optical transceiver module, 100GBAS. SP AR HW 8X5X4 CPAK optical transceiver module, 100GBAS. SP

OLT, Optical line terminal

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Global PON Chipset Market Size, Share, Industry Trends & Forecast

PON Chipset Market Dynamics 2026-2033 The PON (Passive Optical Network) chipset market is experiencing a profound transformation driven by a confluence of technological innovation,

Contact Us

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