

How much does a 10 Gigabit single-mode optical module cost



AI Overview

10G single-mode SFP+ modules typically range from \$34 to \$50 for standard LR modules, with ER and ZR modules costing more depending on distance and features.

Typical Pricing

- 10G LR (Long Range, ~10 km):** Prices generally start around \$34 to \$50 per module for standard single-mode SFP+ transceivers compatible with Cisco, Juniper, Arista, and other major brands.
- 10G ER (Extended Range, ~40 km):** Modules designed for longer distances, such as 40 km, typically cost \$100 or more, depending on the manufacturer and wavelength (e.g., 1550 nm) used.
- 10G ZR (Ultra-Long Range, 80 km+):** These are premium modules for metro or backbone networks and can exceed \$200-\$300 per module, reflecting their extended reach and specialized optics.

Factors Affecting Price

- Distance and Wavelength:** LR modules (10 km, 1310 nm) are the most affordable, while ER (40 km, 1550 nm) and ZR (80 km+) modules are more expensive due to higher-quality lasers and optics.
- Brand and Compatibility:** OEM modules from Cisco, Juniper, or Arista are typically more expensive than third-party or compatible modules (e.g., LINK-PP or FS modules), which can reduce costs by 30-50% without compromising standards compliance.
- Power Consumption and Features:** Modules with lower power consumption or multi-rate support may have slightly higher prices, but they can reduce operational costs in large deployments.
- Bulk Purchase:** Buying in larger quantities often reduces the per-unit cost, especially for enterprise or data center deployments.

Summary

For most enterprise or campus networks, 10G single-mode LR modules (~10 km) are the most cost-effective, priced around \$34-\$50. ER and ZR modules are suitable for longer-distance links but come at a higher price. Choosing between OEM and compatible modules can significantly impact cost while maintaining reliability and standards co...

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10G SFP+ Optical Transceiver Modules | AscentOptics

AscentOptics offer a full range of 10G SFP+ products line, including 10G copper SFP 30m/80m over Cat6a/Cat7 copper cable, SR for 300M over multi-mode

10G SFP+ Optical Transceivers | Transceiver Module

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Cisco SFP-10G-LR 10GBASE-LR SMF 1310nm SFP+ Module Price

Cisco SFP-10G-LR 10GBASE-LR SFP+ ensures 10Gbps over single-mode fiber at 1310nm for long-reach uplinks. Check live price and stock, buy online.

Intellinet 10 Gigabit Fiber SFP + (LC) Single-Mode

10 Gigabit Fiber SFP + (LC) Single-Mode Optical Transceiver Module The new line of Intellinet Enhanced Small Form Factor Pluggable (SFP)

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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

SFP+ Single Mode LC Module (10km)

Duplex LC optical interface Supports data rates of up to 10.31Gbps Supports 1310nm single mode network transmissions Low Electromagnetic Interference

Single Mode 10G SFP+ Module: Price, Types & Buying Guide

Explore single mode 10G SFP+ modules, including LR, ER, and ZR types. Compare prices, distances, and compatibility to choose the right module.

Cisco 10GBASE-LR SFP Module for 10

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StarTech Cisco SFP-10G-LR Comp. SFP+ Module

It provides a versatile and cost-effective solution that's compatible with a multitude of 10 Gigabit networking devices. Ideal for use in switches, routers and other

Complete Guide to Fiber Optic Home Networking

For power users on 10 Gbps plans: some ONTs support a direct SFP+ (Small Form-factor Pluggable) connection instead of an Ethernet handoff. SFP+

Optical Transceiver Pricing: Cost Ranges by Speed and

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

SFP+ Optical Transceiver Modules (10G-SR/LR)

Amphenol SFP Optical Modules • SFP+ Optical Modules from Cables on Demand are Now Available in both Short Range (SR) Multimode and Long Range (LR)

Randex | Automated Storage & Retrieval Systems

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

The average 10G SFP price typically falls between \$10 and \$300, depending on the module type, transmission distance, and brand. For most standard enterprise and data center deployments, the

Shopping

Shopping is a leading price comparison site that allows you shop online for the best deals and lowest prices. You can read unbiased product reviews and

Single Mode 10G SFP+ Module: Price, Types & Buying Guide

A single mode 10G SFP+ module is the most practical choice when you need stable, long-distance 10G fiber connectivity without sacrificing compatibility or future scalability. For most enterprise networks,

Contact Us

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