

Price of optical module over 40km



Overview

10G SFP+ ER SMF 1310nm 40km Transceiver Module Featuring a built-in Semtec/Macom chip and reliable DFB laser from global leaders, the 10G SFP+ ER1310 modul.

Key Takeaways

Optical modules for 40 km range vary widely in price, from around \$100–\$500 for 10G SFP+ modules to over €500 for 100G QSFP28 modules, with 400G QSFP-DD modules typically costing significantly more. 10G Optical Modules

10G SFP+ modules designed for 40 km single-mode fiber typically operate at 1310nm or 1550nm and support 10 Gigabit Ethernet. Examples include:

- Optcore 10Gb/s CWDM SFP+ ER: Supports 40 km over single-mode fiber, compatible with 10GbE switches and routers, with CWDM wavelengths from 1470nm to 1610nm .
 - SFP-10G-ER 1550nm DDM: Compatible with Cisco, Huawei, Juniper, and other platforms, supporting 20/40/60 km links .
 - SFP-10G-ER40 1310nm: Provides extended reach with EML transmitter and APD receiver, supporting real-time diagnostics via DOM/DDM . Price range: Typically \$100–\$300 per module, depending on brand, wavelength, and vendor.
- 100G Optical Modules

100G QSFP28 modules for 40 km use 4WDM channels and require host-side FEC for full reach:

- 100G-4WDM-QSFP40KM: Supports 100GBASE-4WDM over 40 km single-mode fiber, LC duplex connectors, and cooled EML transmitters. Price is listed at €508 .

400G Optical Modules

400G QSFP-DD ER4 modules are designed for high-capacity networks over 40 km:

- 400G QSFP-DD ER4 40km: Supports 400G transmission over single-mode fiber, compatible with multiple vendor platforms, often sold in bulk or customized configurations . Price range: These modules are significantly higher, often several thousand dollars per unit, depending on vendor and customization.

Summary

- 10G SFP+ (40 km): \$100-\$300
- 100G QSFP28 (40 km): ~€500
- 400G QSFP-DD (40 km): Several thousand dollars, depending on specifications
Prices vary based on vendor, brand compatibility, wavelength, and additional features such as digital diagnostics (DOM/DDM) or CWDM support. For exact pricing, contacting suppliers or checking online distributors is recommended.

Article Content

10G SFP+ ER SMF 1310nm 40km Transceiver Module

Featuring a built-in Semtec/Macom chip and reliable DFB laser from global leaders, the 10G SFP+ ER1310 module delivers low

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center

OREI 4K HDMI Fiber Extender, Over 1G IP, Loop Out 1-Way IR RS

The UHD-FOM40-K offers a comprehensive solution for extending high-definition signals over long distances. It supports up to

400G QSFP-DD ER4 40km Optic Module

As one of the most professional 400g qsfp-dd er4 40km optic module manufacturers and suppliers in China, we're featured by

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module - Pair Made with heavy-duty material and crafted to perfection,

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

1□ What Is a Single Mode 10G SFP+ Module? A single mode 10G SFP+ module is a hot-swappable optical transceiver that delivers

Hanutech 10G Single Mode SFP+ Bidi Modules 40KM Fiber Optic

Hanutech 10G Single Mode SFP+ Bidi Modules 40KM Fiber Optic Transceivers 1270/1330nm, LC Fiber Interface- 1 Year Warranty :

Hanutech 10Gbps SFP+ 40KM 1310nm Single Mode Dual Fiber Optical ...

Hanutech 10Gbps SFP+ 40KM 1310nm Single Mode Dual Fiber Optical Transceiver SFP Module : Amazon : Industrial & Scientific

How to Estimate an Optical Module's Transmission Distance | FiberMall

Optical modules distinct from one another in their transmission distance, a feature that should be taken into account in

40G QSFP+ Optical Transceiver Modules | FiberMall

40G QSFP+ (Quad Small Form-factor Pluggable Plus) & BIDI Transceiver Modules enable a maximum of 40km optical transmission

SFP 100g 25g 40g Qsfp 100m 2km 10km 40km 80km Simplex/ Duplex

The module converts 4 inputs channels (ch) of 25.78Gbps to 27.95Gbps electrical data to 4 lanes optical signals, and multiplexes

10G SFP+ module SM 20KM 40KM 80KM TX/RX 1270/1330nm,single

SFP+-10GB-LR is a very compact 10Gb/s optical transceiver module for serial optical communication applications at 10Gb/s. The

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Estimated delivery time : 3-5 working days. See details. 10G SFP+ ER Module is designed for optical communication applications

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

