Optical Port Module Price



Overview

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

Key Takeaways

Optical port module prices vary widely, typically ranging from $10 for basic SFP modules to several thousand dollars for high-speed 400G–800G modules. Price Ranges by Module TypeBasic SFP Modules (1G–10G): These are commonly used for short- to medium-range connections. Prices generally range from $10 to $100 per module, depending on brand, compatibility, and transmission distance.

10G–25G SFP+ Modules: Higher-speed modules for enterprise networks or data centers typically cost $50 to $300 per unit, with variations based on single-mode or multi-mode fiber and reach. QSFP/OSFP Modules (40G–400G): These high-performance modules are used in large-scale data centers. Prices range from $200 to $2,000, depending on speed, distance, and manufacturer.

Ultra-High-Speed Modules (400G–800G): Cutting-edge modules like QSFP-DD SR8 or OSFP SR4 can cost $2,000 to $5,000 or more, reflecting advanced technology, low power consumption, and high data throughput.

Factors Affecting Price

Transmission Distance: Modules supporting longer distances (e.g., 10 km–120 km) are more expensive than short-range modules (100 m–500 m),. Fiber Type: Single-mode fiber (SMF) modules are generally pricier than multi-mode fiber (MMF) modules due to higher precision requirements. Brand and Compatibility: OEM or branded modules (Cisco, Juniper, Mellanox) cost more than generic or third-party modules.

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Bulk Orders: Purchasing in bulk can significantly reduce per-unit cost, especially from manufacturers or distributors in China. Special Features: Hot-pluggable, low-power, or modules with advanced error correction (FEC) may increase the price.

Where to Buy

Retail Platforms: Amazon offers plug-and-play optical network terminals and basic SFP modules. Specialized Suppliers: FS.com provides 1/2/4G transceivers with competitive pricing and nearby warehouse shipping.

Wholesale/

Factory Options: Alibaba and Made-in-China list a wide range of SFP, QSFP, and custom optical modules with bulk pricing and OEM options.

High-

Performance Modules: COBTEL supplies 400G–800G modules for data centers and AI infrastructure. In summary, optical port module prices depend heavily on speed, distance, fiber type, and brand, ranging from $10 for basic SFP modules to over $5,000 for ultra-high-speed 800G modules. Bulk purchasing and OEM options can help reduce costs for large-scale deployments.

Article Content

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

50/25/10/1G Transceiver Modules | Optical Transceivers

FS provides 50/25/10/1G transceivers modules in SFP/SFP28/SFP56/QSFP28 form factor, supporting transmission distances from 30m to 160km over SMF/MMF

SFP Module Price

Find competitive sfp module prices for various optical transceivers. Our range includes 1.25G, 10G, and 25G modules with different reach and compatibility.

40G QSFP+ Transceiver Modules | Optical

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for high-density switching, routing

Optical Transceiver Modules, HUAWEI Cisco SFP SFP+ QSFP

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Deploy software configurable line rates and modulation schemes for long-reach amplified DWDM systems or dark fiber systems. Support line rates up to 400 Gbps over a single-fiber bidirectional

OPTICAL MODULE Price

ONS 15454 Optical Service Channel Module. ONS 15454 Enhanced Optical Booster Amplifier Module. ONS 15454 Optical Booster Amplifier Module. ONS 15454 Optical Pre-Amplifier Module. 40Chs

Fiber Optic Transceiver Modules | Optoelectronics

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Silicon Photonics Networking for Agentic AI | NVIDIA

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Small Form-factor Pluggable

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 format used for

Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in high-bandwidth data

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 wiring closets, Internet Service

The Most Comprehensive Guide Of Optical Modules

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Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Cisco 10GBASE SFP+ Modules Data Sheet

Cisco SFP-10G-T-X module The Cisco 10GBASE-T module (Figure 2) offers connectivity options at the following data rates: 100M/1G/10Gbps. It has the SFP+ form factor and an RJ-45 interface so that

SFP Module: What''s It and How to Choose It?

What Is SFP Module? SFP module is a compact, hot-pluggable optical transceiver module, which is widely used for both telecommunication and data communications applications. It is

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

SFP Optical Transceiver Products | Syrotech Networks

Syrotech Networks is market leader in manufacturing and supplier of sfp module, optical transceiver, sfp port, sfp optical transceivers, fiber sfp.

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

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