Price of Coherent Optical Modules QSFP



Overview

QSFP-DD Price by Module Type (2026) The 400G transceiver price spread between the most economical and the most expensive modules is roughly 100:1.

Key Takeaways

Coherent QSFP modules range from under $2,000 for short-reach 400G modules to over $130,000 for long-haul 400G/800G ZR+ modules, depending on type, reach, and vendor. 400G QSFP ModulesShort-Reach (SR8): Typically used for in-rack or cross-row connections, these modules cost $1,400–$1,800 from reputable third-party vendors, making them the most economical entry point for 400G deployment.

Medium-

Reach (DR4/FR4): Designed for inter-row or campus links, prices are higher than SR8 but still significantly lower than long-haul coherent optics.

Long-

Haul Coherent (ZR/ZR+): For data center interconnects or metro/regional networks, OEM modules can exceed $130,000, while third-party alternatives may offer substantial savings. 800G QSFP ModulesEarly 800G Modules: Pricing is still stabilizing. Buyers can expect to pay 60–70% of OEM list prices for proven third-party 800G transceivers.



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Applications: 800ZR modules support up to 120 km over DWDM links, while 800G ZR+ modules can extend beyond 1,000 km, suitable for metro and regional interconnects. Market ConsiderationsOEM vs Third-Party: OEM modules are often preferred for critical production workloads due to firmware and DOM compatibility, while third-party modules offer cost savings for less critical deployments. Total Cost of Ownership (TCO): Beyond the module itself, deployment costs include cabling (DACs or AOCs) and infrastructure.

For example, a $120 DAC can replace a pair of $1,400 SR8 modules for short in-rack connections, yielding significant savings. Market Trends: The QSFP optical module market is projected to reach $25 billion by 2033, driven by cloud adoption, 5G, and data center upgrades. Key players include Coherent Corp, Lumentum, Cisco, and Broadcom.

SummaryEntry-Level 400G SR8: $1,400–$1,800 (third-party)Medium-Reach 400G DR4/FR4: Higher than SR8, varies by vendorLong-Haul 400G/800G ZR/ZR+: $130,000+ (OEM), lower for third-party800G QSFP-DD: 60–70% of OEM list prices for third-party modules Pricing depends heavily on module type, transmission distance, vendor, and deployment requirements, so careful planning and benchmarking are essential for cost-effective procurement.

Article Content

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

QSFP-DD Price by Module Type (2026) The 400G transceiver price spread between the most economical and the most expensive modules is roughly 100:1. A short-reach SR8 for in-rack

800G/400G Coherent OSFP/QSFP-DD Transceiver Modules | Optical

FS 800G/400G Coherent OSFP/QSFP-DD optical transceiver module solutions offer a range of OSFP/QSFP-DD modules 120km/500km reach, and used for Edge DCI, LH, Regional, Metro and

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QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

Real QSFP28 pricing for 2026: SR4, LR4, CWDM4, and single-lambda costs. Compare OEM vs third-party, volume discounts, and hidden TCO factors.

100G QSFP28 Module Cost: Pricing Guide & Factors | Vitex

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Discover 100G QSFP28 module pricing. Learn key cost factors, considerations, and real examples to make informed purchasing decisions for your network.

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco Transceiver Modules Compatibility Matrix.

100G QSFP28 Optical Transceivers

In this MSA-compatible 100G-Q28-DCO-ZR series you will find Digital Coherent Optics QSFP28 modules for duplex single-mode fiber (SMF) links, equipped with C-band tunable ITLA lasers and

400G Digital Coherent QSFP-DD DWDM Optics Transceivers

400G Digital Coherent QSFP-DD DWDM transceivers, ZR, ZR+&ZR+ Pro variants, compatible with Cisco, Juniper, Nokia&Arista. Built for high-speed DCI & long-haul transmissions up to 120 km,

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Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization. Supports an expansive list of interoperability

Optical Transceiver Market Size, Growth Drivers

Key Report Takeaways By protocol, Ethernet led with 45.79% of the optical transceiver market share in 2025, while coherent DWDM modules are

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics Module Data

The Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense wavelength division multiplexing amplified networks, and is available in both C

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent

These digital coherent optics modules enable 800G traffic over amplified DWDM links up to 120 km for 800ZR and over 1000 km for 800G ZR+.

Optical Transceiver Pricing: Cost Ranges by Speed and Type

40G QSFP + modules for MMF SR4 links are among the most cost-efficient high-speed options; compatible 40G SR4 MPO modules can be found at modest prices. LR4 or specialized packaged

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

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Cisco ® QSFP28 100G ZR extends 100GbE coherent links from QSFP28 ports reaching up to 80km over dark fiber and up to 300km over amplified Dense Wave Division Multiplexing

OSFP Transceivers: High-Density Optical Connectivity from 400G to

⚡ 1. Why OSFP Is the Preferred Form Factor for Modern Data Centers □□ 1.1 High Thermal Headroom for Next-Gen Optics OSFP modules support power budgets up to 60W, which

800G/600G/400G OSFP Digital Coherent Optics Transceiver

High transmitter optical output power enable the transceivers to be compatible with deployed and emerging ROADM line systems. The 800G Digital Coherent Optics (DCO) family of transceivers are

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OpenZR+ QSFP-DD Pluggable Coherent Optical Module Metro/regional Ethernet data center | Service provider network interconnects

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces.

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

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