

Offshore Price Pluggable Optical Module QSFP



AI Overview

400G QSFP-DD modules typically range from \$1,400 to \$10,000 depending on type and reach, while 800G OSFP and QSFP-DD modules can cost significantly more, especially for ZR/ZR+ coherent optics. 400G QSFP-DD and OSFP Modules Price Range: Short-reach SR8 modules for in-rack connections are priced around \$1,400–\$1,800 from reputable third-party vendors, making them the most cost-effective entry point for 400G adoption. DR4 and FR4 modules, used for cross-row or campus links, are moderately priced, with third-party competition driving costs down over the past 18 months. Long-reach LR4, ZR, and ZR+ modules can exceed \$10,000 for OEM units, particularly for data center interconnects (DCI), while third-party alternatives can offer substantial savings. Factors Affecting Price: Form Factor: QSFP-DD is widely supported and cost-effective due to broad OEM adoption, while OSFP modules have a larger footprint and better thermal dissipation, adding 5–15% to costs. Optical Reach and Modulation: PAM4 signaling and DWDM capabilities increase complexity and BOM costs by 20–40%, especially for metro or long-haul applications. Brand and Certification: OEM modules carry a 20–30% premium over generic third-party units, with additional costs for warranties and interoperability certification. 800G QSFP-DD and OSFP Modules Price Range: 800G modules, including ZR and ZR+ coherent optics, are still maturing in the market. Buyers can expect to pay 60–70% of OEM list prices for proven third-party 800G transceivers. Cisco 800G QSFP-DD and OSFP ZR/ZR+ modules support up to 120 km for 800ZR and over 1000 km for 800G ZR+, making them suitable for DCI and regional interconnects. Considerations: Early 800G modules may have variability in Digital Optical Monitoring (DOM) integration and firmware compatibility, prompting some enterprises to prefer OEM units for critical applications.

Article Content

QSFP Optical Module Market Research Report 2034

The growing adoption of disaggregated network architectures and open networking platforms, which favor standardized pluggable optics over proprietary integrated solutions, is structurally expanding

Global QSFP Optical Transceiver Market 2025

QSFP optical transceiver is a four-channel small pluggable optical module with four independent full-duplex transceiver channels. It was originally

400G Optical Module Selection Guide: QSFP-DD vs.

Compare QSFP-DD, QSFP28, and OSFP form factors. Learn about compatibility, power constraints, migration TCO, and data center selection

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

Compare Huawei CloudEngine 40G switches (CE6800, CE12800), QSFP+ module compatibility (SR4/LR4), and deployment guidance for AI-ready Ethernet fabrics.

Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal choice for a wide range of

QSFP-DD Product Family » Acacia

Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links

Coherent DSP | Critical enablers for efficient

Coherent DSPs for pluggable modules The Marvell coherent DSP portfolio, including Orion™, Canopus™ and Deneb™ platforms, empower the optical module

400G vs 800G Optical Transceivers: Which Speed Defines Data

QSFP-DD vs OSFP: What the Form Factors Signal The form factor debate reflects deeper architectural priorities. Quad Small Form-factor Pluggable Double Density (QSFP-DD)

Global Quad Small Form-Factor Pluggable Module Market Size, Share ...

The Quad Small Form-Factor Pluggable (QSFP) Module Market has emerged as a crucial segment within the telecommunications and data networking industry, primarily due to the

Optical Transceiver Market Size, Growth Drivers

Our study defines the optical transceiver market as all pluggable, board-mounted electro-optical modules across SFP, QSFP, CFP, OSFP, and

What factors influence 400G optical transceiver

Discover the key factors that drive 400G optical transceiver pricing—from form-factor and component costs to market dynamics and sustainability.

QSFP-DD Pluggable Optical Transceiver Modules Market's Drivers

The QSFP-DD pluggable optical transceiver module market is projected for substantial expansion, fueled by escalating demand for enhanced bandwidth and accelerated data transmission

Quad Small Form-Factor Pluggable (Qsfp) Module Market ...

The following table illustrates the price difference between QSFP and Small Form-Factor Pluggable (SFP) modules for various data rates and wavelengths. According to industry reports, the price of a

The Ultimate Guide to SFP Modules (2026): Types,

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network devices (switches, routers,

Pluggable Optical Module Market Research Report 2034

The integration of coherent optics into pluggable form factors, particularly the emergence of coherent QSFP-DD and OSFP modules, is democratizing long-haul transmission capabilities, allowing

Bulk Ethernet Cables: Cat5e, Cat6, Cat7 Bulk Cables

Buy Bulk Ethernet Cables - Cat5e, Cat6/6a, Cat7 cable 1000ft (UTP/SFTP, 305 metres, blue/yellow), multiple jacket colour of bulk cable available.

Arista Optics Modules and Cables

200G QSFP optics, AOCs and cables for simple upgrade from 100G A Broad range of 400GE optics, AOCs and cables, in both OSFP and QSFP-DD form-factors 400G-ZR optics, with pluggable line

Quad Small Form Factor Pluggable Module Market Research Report

As organizations seek to optimize their network infrastructure for speed, efficiency, and cost-effectiveness, the adoption of next-generation QSFP modules is set to accelerate, shaping the

SFP Optical Transceivers: How Pluggable Optics Are Reshaping

1. Introduction: The Pluggable Revolution In the era of hyperscale AI computing and always-on global connectivity, the optical transceiver module has quietly become one of the most

800G QSFP-DD Optical Module Market Revenue Forecast Driven

The 800G QSFP-DD Optical Module Market was valued at USD 1.43 Billion in 2025 and is projected to reach USD 8.52 Billion by 2035, growing at a CAGR of 19.5% from 2027 to 2035. Market

QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate. Backwards

Global QSFP-DD Pluggable Optical Transceiver Modules Sales

QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. It is being developed by

A Faster Future with Linear Pluggable Optics

Linear Pluggable Optics are a low-power pluggable module interface that eliminates DSP chips, creating a linear signal path.

800G Optical Modules Explained: Standards, Types

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power AI, HPC & next-gen data

The Evolution of 400G, 800G, and 1.6T Optical Modules

With the rapid advancement of AI, HPC, and cloud computing, the demand for high-speed optical modules such as 400G, 800G, and even 1.6T is

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://sabineamsee.co.za>

Email: info@sabineamsee.co.za

Phone: +27 82 415 6793

Address: Unit 7, Innovation Park, 34 Electron Road, Kempton Park, 1620,
South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

