

Quotation for QSFP Passive Optical Networks for Data Center Interconnection



Overview

A short-reach SR8 for in-rack connections costs under \$2,000 from a reputable third-party vendor, while a coherent ZR+ for long-haul Data Center Interconnect (DCI) can exceed \$130,000 from an Original Equipment Manufacturer (OEM). Understanding this range matters. Finally, it presents a Total Cost of Ownership (TCO) framework to help you reframe optics from a simple consumable into a strategic infrastructure asset. If you need a refresher on the underlying technology first, check out our complete QSFP-DD guide. OEM vs Third-Party: What's the Real Difference?

This article explores the characteristics of OSFP and QSFP-DD form factors and practical solutions for interconnecting devices with different ports, enabling a more flexible and scalable network architecture. Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. • If you are looking for the 1000BASE-LX price such as SFP 80km price. QSFP-DD Optical Transceiver by Application (Cloud Services, Data Center Interconnection, AI, Others), by Types (400G, 800G, Others), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy).



Article Content

Sep 05, 2025

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical

SFP vs SFP+ vs QSFP28 vs QSFP-DD: Master optical transceiver selection for 1G to 800G AI networks with our lab-verified guide.

Oct 10, 2025

Guide to QSFP28 Transceivers for 100G Data Center

However, there are several types of 100G optics (transceivers and cables) available on the market like the CFP, CFP2, CFP4 and QSFP28 fiber optic assemblies.

Feb 20, 2026

Global QSFP Optical Transceiver Market 2025

QSFP transceivers offer the perfect balance of cost, performance, and scalability, making them a popular choice for interconnecting switches, routers, and servers

Jul 11, 2025

200G QSFP56 SR4 Transceiver – Cost-Effective Data Center

The 200G QSFP56 SR4 optical transceiver is designed as a cost-effective solution for data centers seeking higher bandwidth without the complexity and cost of 400G deployment. Utilizing

Nov 29, 2025

SFP vs QSFP: The Definitive Technical and Strategic Guide

Decisions regarding optical transceivers, commonly referred to as optical transceivers, will mark a pivotal turning point for network architects. A poor choice of form factor can waste millions

Apr 03, 2026

Unlocking the Future of Connectivity: Understanding

Q: What are the applications of QSFP-DD in network infrastructure? A: Network infrastructure has many applications for QSFP-DD, particularly data

Nov 17, 2025

200G Optical Transceiver: QSFP-DD vs OSFP for Data

Explore how Fibrecross's QSFP-DD and OSFP packaged 200G optical transceivers can improve the bandwidth, density and scalability of modern data centers.

Nov 19, 2025

Understanding QSFP Cables: A Comprehensive Guide to 40G

Explore our comprehensive guide to QSFP cables for 40G direct attach options. From passive/active DAC to copper cable assemblies, find the perfect solution for your network. Trusted by

Jan 06, 2026

QSFP, QSFP+, SFP, SFP+ transceiver modules and

The main application fields are transmission network, data network, access network and passive optical network (PON) of metropolitan area network.

Dec 22, 2025

The Ultimate Guide to QSFP Cables

Explore the ultimate guide to QSFP cables. Learn QSFP types, differences from SFP, installation methods, and benefits for high-speed data

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Understanding the QSFP Cable: A Comprehensive

It supports seamless connectivity for data centers, enterprise networks, and telecommunication systems. As a compact cable, QSFP works best with high

Jan 11, 2026

QSFP-DD Optical Transceivers – MapYourTech

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology,

Jan 13, 2026

Interconnection Between OSFP and QSFP-DD Ports for 400G/800G

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

Jan 28, 2026

QSFP Cables • QSFP+ Cables for Sale | Cables on

Amphenol QSFP Cables • QSFP+ Cables (40G DAC Cables) up to 7m (23'') Now In-Stock at Cables on Demand! Amphenol Passive Copper QSFP and QSFP+ 40G

Nov 12, 2025

FAQs for QSFP+ Optical Transceivers

It interfaces networking hardware (such as servers and switches) to a fiber optic cable or active or passive electrical copper connection. It is an industry format

Jun 27, 2025

GIGALIGHT Unveils New Network Architecture for 400G

April 23, 2025, Shenzhen, China. – To address the demands for high-speed, high-density, and cost-efficient modern data centers, GIGALIGHT, a global leader in

Jan 27, 2026

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.

Jul 13, 2025

QSFP Transceiver: The Future of High-Density Data Center

Explore the QSFP transceiver's role in scaling data center bandwidth. Learn about its features, types (QSFP+, QSFP28, QSFP56, QSFP-DD), and impact on high-speed optical networking.

Nov 01, 2025

QSFP-DD Optical form factor: An evolutionary approach

To support that, the Optical Internetworking Forum is working to define a pluggable 400 GbE solution for Data Center Interconnect called 400GZR

Apr 04, 2026

SFP vs QSFP: Key Differences Explained

SFP vs QSFP module differences explained. Learn about compatibility, speeds, and use cases for network setups.

Aug 14, 2025

Everything You Need to Know About QSFP Cables and

It finds extensive application in data centers and in high-performance computing activities. Q: How long are QSFP cables typically? A: QSFP cables

Dec 22, 2025

QSFP-DD Optical Transceiver Decade Long Trends, Analysis and

This report provides comprehensive coverage of the QSFP-DD optical transceiver market, segmented by application (cloud services, data center interconnection, AI, others), type (400G,

Jul 17, 2025

QSFP-DD TRANSCEIVERS for 400G and 800G

These QSFP-DD cable solutions ensure reliable, high-performance networking for data centers, enterprises and service provider networks. [Download the overview](#)

Oct 04, 2025

Understanding SFP, SFP+, QSFP and Beyond:

In the world of networking, the ability to connect devices with high-speed data transmission is crucial. Whether you are setting up a local area network (LAN), a

Oct 31, 2025

SFP Module Prices Comparison by Top 5 SFP

SFP modules have been in large demand in data centers with the continuous development of optical communication. Also, the SFP module type

Nov 30, 2025

Comprehensive Guide to QSFP – MapYourTech

The Quad Small Form-Factor Pluggable (QSFP) family represents a critical evolution in high-speed optical transceiver technology for data centers,

Sep 06, 2025

40G QSFP: The Core of Optical Network Interconnection

Learn how QSFP works, and why it is essential for optical networks. Explore selection tips for data centers and high-speed connectivity.

Dec 24, 2025

QSFP-DD Optical Transceivers Unlocking Faster

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern networks

Jul 02, 2025

The Ultimate Guide to Cisco QSFP Optical Transceiver

Efficient and consistent data transmission is significant in the rapidly changing technological environment. Without a doubt, in high-speed networking

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