

Qatar Cost 800G Optical Module QSFP



Article Overview

800G QSFP-DD optical modules typically range from \$7,000 to over \$130,000 depending on type, reach, and vendor, with short-reach modules being the most affordable.

Pricing Overview

The cost of 800G QSFP-DD modules varies widely based on module type, transmission distance, and vendor. Short-reach modules (SR8) for in-rack or cross-row connections are generally the most economical, priced around \$7,000–\$10,000 from reputable third-party suppliers, while long-haul coherent modules (ZR/ZR+) for metro or regional interconnects can exceed \$130,000 for OEM products like Cisco . Third-party modules often offer 30–50% lower prices than OEM equivalents without compromising basic performance for standard data center applications .

Module Types and Applications

- SR8 Modules: Short-reach, ideal for in-rack or cross-row connectivity, typically up to 100 meters over multimode fiber (MMF), .
- DR4/FR4 Modules: Medium-reach, bridging data center rows or campus links, supporting distances up to 2 km over single-mode fiber (SMF), .
- ZR/ZR+ Coherent Modules: Long-reach, supporting up to 120 km (800ZR) or over 1000 km (800G ZR+) over DWDM networks, suitable for metro or regional interconnects .

Market Trends...

Article Content

Mar 24, 2026

800G Optical Modules Explained: Standards, Types & Use Cases

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power

Jun 13, 2026

800G OSFP Optical Transceiver Modules

Arista OSFP-800G-2xSR4 Compatible 800GBASE-SR8 (2x400G SR4) Twin-port OSFP IHS/Closed Finned Top PAM4 850nm 100m

Mar 20, 2026

QSFP-DD TRANSCEIVERS for 400G and 800G | Smartoptics

Smartoptics QSFP-DD transceivers provide cost-efficient 400G and 800G optical networking. QSFP-DD (Quad Small Form-Factor

Jul 04, 2026

Application Introduction for 800G OSFP and 800G QSFP-DD Optical Modules

A comprehensive selection of 800G optical modules is available, including AOC, DAC, and AEC, all provided in OSFP

Feb 01, 2026

800G Optical Module Cost Analysis | TCO Optimization Guide

Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis,

Feb 21, 2026

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

May 16, 2026

800G QSFP-DD Cable and Transceiver Modules Data Sheet

The QDD800-2LR4 Module is designed for use in 800GBASE Ethernet throughput up to 10km over single-mode fiber

Sep 25, 2025

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

Aug 31, 2025

1.6T OSFP224 | AI Ethernet Modules

FS provides an expanding portfolio of 800G OSFP/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward

Feb 26, 2026

Global 800G Optical Module Market Size, Share, Growth Analysis ...

800G Optical Module Market size was valued at 1.5 billion USD in 2025 & is estimated to reach 5.0 billion USD by

Mar 25, 2026

800G Transceivers: How to Choose the Right One for Data Centers

The 800G module is one of the core components of high-performance optical communication, which can achieve a

Jun 04, 2026

800G Optical Module: osfp vs qsfp-dd

Nowadays, 400G optical modules are widely used, but 800G optical module technology has also been slowly used in

Dec 27, 2025

800G OSFP/QSFP-DD | Transceiver Modules

FS provides an expanding portfolio of 800G OSFP/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward

Apr 01, 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

Feb 18, 2026

800G OSFP/QSFP-DD Optical Transceivers for InfiniBand & RoCE

High-density 800G OSFP and QSFP-DD transceivers support InfiniBand and RoCE, enabling 100m to 2km transmission via MMF

Nov 04, 2025

800G QSFP-DD Module: Technical Guide and Selection Criteria

Complete guide to 800G QSFP-DD modules: specifications, types, QSFP-DD vs OSFP comparison, and selection

Dec 13, 2025

800G QSFP-DD Cable and Transceiver Modules Data Sheet

Product overview The FS® 800GBASE Quad Small Form-Factor Pluggable (OSFP/QSFP-DD) portfolio offers

Sep 15, 2025

How to choose between 800G optical-mode QSFP-DD and OSFP

800G OSFP Form Factor: The OSFP is a new type of optical module, much smaller than the CFP8 but slightly larger

Jun 05, 2026

40G QSFP+ Transceiver Modules | Optical Transceivers

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

Mar 21, 2026

800G QSFP-DD

SULITON 800G OSFP/QSFP-DD Module SULITON provides OEM and ODM of various optical modules from 10 100 1000basetx sfp

Feb 02, 2026

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

Mar 21, 2026

Everything You Need to Know About 800g QSFP-DD Optical

Explore the essentials of 800G QSFP-DD optical transceivers, including specs, form factors, and compatibility for high

Dec 28, 2025

Global 800G QSFP-DD Optical Module Market Analysis, Share

800G QSFP-DD Optical Module Market Size and Projections As of 2024, the 800G QSFP-DD Optical Module Market size was USD

Contact Us

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