

Project Quotation 800G Active Optical Module



Article Overview

The cost of 800G active optical modules ranges from \$700 to \$1,900 per unit depending on form factor, reach, and vendor, with additional considerations for power, cooling, and support.

Pricing Overview

For 800G optical modules, typical acquisition costs vary by type and volume:

- 800G OSFP-DR8: \$1,100–\$1,400 per unit for orders of 1,000+ units
 - 800G QSFP-DD-DR8: \$1,000–\$1,300 per unit
 - 800G OSFP-FR4: \$1,500–\$1,900 per unit for longer reach optics
 - 800G LPO (Linear Pluggable Optics): \$700–\$900 per unit, lower cost due to no DSP
- Volume discounts typically range from 10–20% for orders over 1,000 units and 20–30% for orders over 5,000 units. OEM modules from vendors like Cisco or Arista may carry a 30–50% premium over third-party compatible modules .

Technical and Operational Considerations

- Power Consumption: 800G OSFP modules consume 15–20W, QSFP-DD 15–18W, and LPO 8–12W .
- Cooling Overhead: Data center PUE of 1.3–1.5 can add 30–50% to power costs.
- Connectivity: Modules support MPO16 or dual MPO12 optical connectors and comply with CMIS 5.X standards

Article Content

800G OSFP Active Optical Cable Datasheet

General Description The OSFP-800G-AOC01 is a OSFP to OSFP active optical cable for short-range data communication and

800G OSFP & QSFP-DD Active Optical Cables (AOC)

The Fibrecross 800G active optical cables, including 800G QSFP-DD AOC, 800G OSFP and 2*QSFP-DD AOC, For ultra-high

Active Optical Module Market Research Report 2034

Active Optical Module market valued at \$10.7 billion in 2025, projected to reach \$35.6 billion by 2034 at 14.2% CAGR, driven by data

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

800G Optical Communication Module Market (2024-2034)

The 800G Optical Communication Module Market was valued at USD 1.2 billion in 2024 and is projected to reach USD 4.5 billion by

Powering the Next Data Race: How 800G & 1.6T Optical Modules Are ...

Powering the Next Data Race: How 800G & 1.6T Optical Modules Are Reshaping AI and Cloud Infrastructure Original

800G Optical Modules Drive Market Recovery in 2025

800G modules drive optical market recovery in Q2 2025, with initial 1.6T shipments. This article highlights key trends

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

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules,

800G OSFP Active Optical Cables | AscentOptics

The 800G OSFP AOC (active optical cable) is an 800 Gb/s parallel active optical cable, which transmits parallel 8×100 Gb/s PAM4

FS Launches 800G LPO Module: A Power Efficiency and Latency

FS introduces an 800G LPO optical module, powering AI and HPC data centers with ultra-low power consumption, reduced latency,

800G Ethernet transceivers become most popular module in

Rapid development of 800G Ethernet transceivers and the necessary supporting components. Higher than expected

Heavy Reading White Paper: 800G Client Optics in the Data Center

Developments in three distinct areas are needed for 800G deployment: optical modules and direct attach copper (DAC) cables,

Heavy Reading White Paper: 800G Client Optics in the Data Center

The next key development is 800G, and the industry is already gearing up to deploy this next generation of client optics in hyperscale

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800G Optical Modules: QSFP-DD or OSFP 51.2T, 64 port, 800G in 2RU Stacked cages (two modules) Both above and below the

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

We will explore the emergence, technical standards, packaging, types, and applications of 800G modules, and answer

Global 800G Optical Module Market Research Report 2025 (Status

Global 800G Optical Module Market: Market Segmentation Analysis This research report provides a detailed

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

800G QSFP-DD Active Optical Cables 8x100G PAM4, 100Meters (328ft)

FIBERSTAMP 800G QSFP112-DD AOC active optical cable is used for short-distance interconnections between equipment within

800G Active Optical Cable

800G Active Optical Cable Jabil Photonic 800G Active Optical Cable provides optimized solutions for interconnections inside

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,

Global 800G Optical Communication Module Trends: Region-Specific ...

The size of the 800G Optical Communication Module market was valued at USD XXX million in 2024 and is projected

The Evolution of Optical Modules: 400G → 800G → 1.6T - A Strategic ...

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and

The Future of 800G Optical Modules: Market Forecast and Key

The 800Gb and beyond connectivity conundrum The global demand for high-speed optical modules is accelerating,

800G Optical Module Market Research Report 2034

The 800G optical module market was valued at \$4.8 billion in 2025 and is projected to reach \$28.6 billion by 2034, growing at a

BRKOPT-2699

High-Speed Interconnects: Backend network requires high speed 100G/200G or 800G optics to connect servers and network

800G Optical Transceiver Modules | Broadex Technologies

800G optical transceivers are a new generation of high-speed optical transceivers. With a transmission rate as high as 800Gbps,

800GbE Optics Shipments to Grow 60% in 2025

Additional Findings from the 4Q24 Optical Component Report: The datacom optical component market will grow 60%+

Contact Us

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

Website: <https://www.watermanfinance.co.za>

Email: sales@watermanfinance.co.za

Phone: +49-176-8294713

Address: Neue Mainzer Str. 66-68, 60311 Frankfurt am Main, Germany

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