

RIVO MULTITRADE OPTICAL SYSTEMS

Price of 800G Optical Module OSFP



Overview

The 800G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider networks.

Key Takeaways

The price of 800G OSFP optical modules typically ranges from \$1,100 to \$1,900 depending on type, reach, and vendor. Acquisition Costs

- 800G OSFP-DR8: \$1,100-\$1,400 per module for volume orders of 1,000+ units .
- 800G OSFP-FR4: \$1,500-\$1,900 per module for longer reach and more complex optics .
- 800G LPO (Linear Pluggable Optics): \$700-\$900, generally lower cost due to no DSP . Price variations depend on vendor tier (OEM modules like Cisco or Arista can be 30-50% more expensive than third-party compatible modules), order volume (10-30% discounts for large orders), technology maturity (early-generation modules cost 40-60% more), market supply constraints (can increase prices 20-40%), and customization options such as special wavelengths or extended temperature ranges (adds 15-30%) .

Operational Costs

- Power consumption: 800G OSFP modules typically consume 15-20W, with annual electricity costs around \$20-\$25 per module including cooling overhead (PUE 1.3-1.5) .

- Maintenance and support: Spare inventory (10–15% of modules), replacement for 2–5% annual failure rate, and vendor support contracts (8–12% of purchase price annually) contribute to ongoing costs .

- Monitoring and management: DCIM software and telemetry storage add \$6–18 per module per year .

Vendor Examples

- Cisco OSFP 800G modules: Premium OEM modules with high reliability, IEEE 800GE compliance, and interoperability with multiple 100GE, 200GE, and 400GE interfaces .

- YTLINK 800G OSFP 2FR4 modules: Third-party modules with built-in Broadcom 7nm DSP, power consumption of 16.5W, and customizable options .

- FS and QSFPTEK: Offer a range of 800G OSFP modules suitable for AI data centers and enterprise networks, often with volume pricing and nearby warehouse availability .

Summary

For budgeting purposes, expect to pay \$1,100–\$1,400 for standard 800G OSFP-DR8 modules, \$1,500–\$1,900 for longer-reach FR4 modules, and \$700–\$900 for simpler LPO modules. Operational costs, including power, cooling, maintenance, and monitoring, add roughly \$20–\$50 per module annually. Prices vary significantly based on vendor, volume, and customization, so large-scale deployments should consider total cost of ownership for accurate planning .

Article Content

800G OSFP/QSFP-DD | Transceiver Modules

The 800G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider networks. Click to get

800G Optical Transceivers

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200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center

800G QSFP-DD

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

800GBASE OSFP/QSFP-DD800 Optics Transceivers Module | FiberMall

800G QSFP-DD800/OSFP optical module includes two architecture solutions, 2x400G and 8X100G. Its optical interfaces include

InnoLight 800G DR8+ Universal OSFP112 Transceiver

The module seamlessly integrates with an optical fiber cable equipped with dual MPO-12 connectors, ensuring precise alignment

800G OSFP Optical Transceiver Module Overview

A: 800G OSFP optical modules can be used in wireless and 5G optical networks to provide high-speed connectivity.

InfiniBand 800G/400G NDR | InfiniBand Optical Transceivers and Optical ...

FS InfiniBand 800G/400G NDR optical modules and cables solution used for high-bandwidth data transmission, data center and AI

800G OSFP-RHS Loopback Module Power Option 30W | FiberMall

800G OSFP Flat Top passive loopback transceivers have built-in inrush current mitigation technology for port testing, and device

Cisco OSFP 800G Transceiver Modules Data Sheet

Note: The OSFP-800G-VR8, OSFP-800G-VR8P, OSFP-800G-DR8 and OSFP-800G-DR8P require patch cords with angled physical

800G Optical Transceiver Overview: QSFP-DD and OSFP Packages

The 800G transceiver can receive 8 billion bits per second, which is more than twice the amount used by the previous

800G OSFP/QSFP-DD | Transceiver Modules

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

800GBASE OSFP/QSFP-DD800 Optics Transceivers Module | FiberMall

The 800G MSA aims to develop low-cost 8x100G QSFP-DD or OSFP optical modules for SR applications, ensuring at least the most

800G OSFP Optical Transceiver Modules

Explore QSPTEK 800G OSFP optics price lists and datasheets. The 800G optics provide ultra low latency, low power, and high

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

NADDOD 800G modules are crucial components for the next generation of high-performance data center networks. They feature

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

