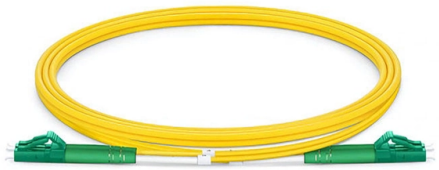
Price List for 800G Optical Transceiver Modules for Data Center Interconnection



Overview

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.

Key Takeaways

800G optical modules for data center interconnect typically range from $700 to $1,900 depending on form factor, reach, and vendor, with OEM modules commanding a premium over third-party options. Typical Pricing by Module Type and Form Factor800G OSFP-DR8: $1,100–$1,400 per unit for volume orders (1000+ units) from third-party vendors; OEM pricing is higher by 30–50%. 800G QSFP-DD-DR8: $1,000–$1,300 per unit for large-volume purchases.

800G OSFP-FR4: $1,500–$1,900 per unit, designed for longer reach and more complex optics. 800G LPO (Linear Pluggable Optics): $700–$900 per unit, lower cost due to no DSP. Coherent 800G ZR/ZR+ modules (QSFP-DD or OSFP): OEM modules from Cisco or similar vendors can exceed $10,000 per unit for long-haul DCI applications, supporting distances up to 120 km (ZR) or over 1000 km (ZR+) with DWDM amplification.

Pricing Considerations

Vendor Tier: OEM modules (Cisco, Arista) typically cost 30–50% more than third-party compatible modules. Volume Discounts: Orders of 1000+ units may receive 10–20% discounts; orders above 5000 units can see 20–30% reductions. Technology Maturity: Early-generation 800G modules can cost 40–60% more than mature products due to limited supply and integration challenges.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15–30% to the base price. Operational Costs: High-density 800G deployments increase power consumption and cooling requirements, which can significantly impact total cost of ownership beyond the module price.

Market Trends

The 800G market is less commoditized than 400G, so pricing is still stabilizing. Third-party modules are increasingly reliable, but many enterprises still prefer OEM modules for critical workloads due to DOM integration and firmware compatibility. Silicon Photonics (SiPh) and DSP advancements are expected to gradually reduce unit costs, but thermal and power constraints remain key factors in deployment economics.

Summary

For data center interconnect applications, buyers can expect: Short-reach DR8 modules: ~$1,000–$1,400 per unit (third-party)Longer-reach FR4 modules: ~$1,500–$1,900 per unitHigh-performance coherent ZR/ZR+ modules: $10,000+ per unit (OEM)Volume discounts and vendor selection can significantly affect final procurement costs. Careful consideration of reach requirements, vendor reliability, and TCO is essential when planning 800G DCI deployments.

Article Content

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.

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, cost comparison, vendor strategies, and ROI calculations for informed

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 interconnect applications - FiberMall

800G Transceivers — Transceiver USA

Transceiver USA''s optical OSFP modules are used in enterprise and datacenter networks. View price, stock and buy direct from Transceiver USA.

800G Transceiver Modules

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Coherent 800G Transceiver Modules transform networks for future connectivity, serving as a vital component for AI/ML, InfiniBand, and Ethernet

800G Coherent Transceivers

With one of the industry''s most comprehensive optical transceiver portfolios - ranging from 10G SFP+ to 1.6T QSFP-DD and OSFP Modules - EPS Global provides cutting-edge connectivity solutions for

High Speed Optical Modules: Market Evolution & 2033 Projections

High Speed Optical Modules growth is driven by expanding cloud services, data center interconnection, and AI applications. Market to reach $35.5B by 2033 with 11.5% CAGR. Analyze key

Pluggables, Power, and Geopolitics: Mapping the 800G and 1.6T Optical ...

Pluggables, Power, and Geopolitics: Mapping the 800G and 1.6T Optical Transceiver Battle How AI Demand Is Reshaping Market Share, Supply Chains, and Valuations.

OSFP Optical Module: $587M by 2025, 25% CAGR Analysis

OSFP Optical Module demand accelerates driven by AI, cloud services, and data center expansion. Market projected at $587M by 2025 with 25% CAGR. Access detailed insights.

QSFP-DD Transceiver Market Evolution: $26.5B by 2033 Analysis

QSFP-DD Transceiver Market Evolution: $26.5B by 2033 Analysis QSFP-DD Optical Transceiver by Application (Cloud Services, Data Center Interconnection, AI, Others), by Types

Hot-Pluggable Optical Modules Market: $15B by 2025, 12% CAGR

The Hot-Pluggable Optical Modules market is projected to reach $15 billion by 2025, expanding at 12% CAGR. Growth is driven by cloud services, data centers, and AI infrastructure.

800G OSFP Optical Transceiver Modules

Explore QSFPTEK 800G OSFP optics price lists and datasheets. The 800G optics provide ultra low latency, low power, and high reliability optical interconnect core components for data centers, AI

Top 10 Optical Transceiver Manufacturers in the World

Sourcing optics for your data center? Discover the top 10 optical transceiver manufacturers in 2026. Compare global giants and factory-direct OEM alternatives.

Optical Transceiver Module Wholesale,10g/25g/40g/100g SFP+ Optical ...

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Fiber optic module manufacturer,ETU-Link supply full model optical transceivers,including standard 8g/10g/25g/40g/100g sfp+ optical modules and copper RJ45 transceiver,wholesale at factory price!

HTF DWDM equipment,OTN Solution,QSFP28 OSFP

OCS Optical AI and Data Center Networking 200G QSFP-DD/QSFP56 400G QSFP-DD/OSFP/QSFP112 800G QSFP-DD/OSFP 1.6T OSFP-XD 100G/50G/40G

OSFP Optical Module Market: Key Growth Drivers Analyzed

The OSFP Packaged Optical Module market is projected to reach $5.2 billion by 2025 with a 22% CAGR, driven by data center and cloud computing demands. Access strategic market data.

NVIDIA/Mellanox Compatible 800G SR8 OSFP PAM4

NVIDIA/Mellanox Compatible 800GBASE-SR8 OSFP Finned Top PAM4 850nm 100m MTP/MPO-16 APC MMF Optical Transceiver Module NVIDIA/Mellanox

Optical Transceiver Market Size, Share, Industry Report – 2035

Industrial cloud deployments and edge data center growth supporting Industry 4.0 initiatives further drive adoption of high-speed 100G to 800G optical modules. Germany''s combination of dense

Contact Us

Continue your research online:

Website: https://kenhardtprimary.co.za
Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

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

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved