

800g optical module unit price



AI Overview

The typical unit price for 800G optical modules ranges from \$700 to \$1,900 depending on type, form factor, and vendor. Price Ranges by Module Type and Form Factor

- 800G OSFP-DR8: \$1,100–\$1,400 per unit for volume orders of 1,000+ units
- 800G QSFP-DD-DR8: \$1,000–\$1,300 per unit for large-volume purchases
- 800G OSFP-FR4: \$1,500–\$1,900 per unit, suitable for longer reach applications
- 800G LPO (Linear Pluggable Optics): \$700–\$900 per unit, lower cost due to no DSP

Factors Affecting Pricing

- Vendor Tier: OEM modules (e.g., Cisco, Arista) typically cost 30–50% more than third-party compatible modules
- Volume Discounts: Orders over 1,000 units may receive 10–20% discounts, while orders over 5,000 units can get 20–30% off
- Technology Maturity: Early-generation modules can cost 40–60% more than mature products
- Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15–30% to the base price
- Market Dynamics: Supply constraints or high demand can temporarily increase prices by 20–40%

Additional Considerations

While the unit price is a key factor, total cost of ownership (TCO) also includes associated infrastructure costs such as 800G switches (\$150,000–\$250,000 per 64-port switch), fiber cabling, patch panels, cable management, and testing equipment. Moreover, thermal management and DSP power draw in 800G modules can impact operational costs, especially in high-density AI or hyperscale data centers.

In summary, for standard 800G DR8 modules, expect prices around \$1,000–\$1,400 per unit, with lower-cost LPO options at \$700–\$900 and longer-reach FR4 modules at \$1,500–\$1,900, while OEM and early-generation modules may command higher premiums.

Article Content

800G OSFP

opticswave 800GBASE-DR8 OSFP PAM4 1310nm 500m DOM MTP/MPO-16 SMF Optical Transceiver Module \$850.00 Add to cart Quick view opticswave 800GBASE-2FR4 OSFP PAM4 1310nm 2km

Optical Transceiver Market Size, Growth Drivers

Passive optical network modules remain essential in broadband rollouts, particularly where regulators mandate fiber-to-the-home coverage.

Eoptolink: The development history of a domestic optical module giant

After its establishment, Eoptolink will focus its main efforts on the research and development and production of optical modules. An optical module is a core optoelectronic device used in fiber-optic

Multimode Optical Modules Market: \$9.54B, 11.6% CAGR Outlook

Multimode Optical Modules market sees 11.6% CAGR, driven by AI, data center expansion, and cloud services. Access critical market share and growth projections.

Unstoppable Surge in AI Infrastructure Orders: Global Computing ...

When paired with liquid cooling systems, 800G/1.6T optical modules and high-speed storage, the total procurement cost per rack computing cluster rises substantially, doubling overall

OSFP Optical Module Growth: What Drives 25% CAGR to 2034?

The OSFP Optical Module market expands rapidly. Analyze key applications like Cloud Services & AI driving a 25% CAGR. Get data on market size, companies, and future trends.

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

AAOI Optical Transceiver 800G: High-Speed Data Solutions

Hot-selling Product Candidates□aaoi optical transceiver 800g The organic results for "aaoi optical transceiver 800g" reveal a marketplace primarily focused on high-speed data center and AI/cloud

NVIDIA Mellanox MMA4Z00-NS Data Center Optical Transceiver

Get exclusive access to NVIDIA Mellanox MMA4Z00-NS Data Center Optical Transceiver Technical Solution details at Hong Kong Starsurge Group Co., Limited, a renowned Optical

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

From optical modules to chips -

Huagong Tech, an optical module manufacturer based in central China's Wuhan, launched the world's first 12.8-terabit XPO module in March, bundling the capacity of eight 1.6T modules into a

400G, 800G, and Terabit Pluggable Optics:

Full range of 400G / 800G pluggable modules Copper cables Multimode Fiber – 100m Single Mode Fiber inside DC – 500m & 2km Single Mode Fiber Campus – 10 km

Optical Transceiver Market Price Trends 2026: TCO & Risks

An 800G-DR8 module might cost significantly more than two 400G-DR4 modules today, but the math changes when evaluated over a 4-year lifecycle in a power-constrained facility.

Optical Module Technology Roadmap | 800G to 3.2T Evolution

Explore the future of optical module technology from 800G to 1.6T, 3.2T and beyond. Comprehensive roadmap covering silicon photonics, CPO, coherent datacom, and AI-optimized

OSFP112 DR 800G Optical Module 8x100G 500m Over SMF With

The 800G OSFP112 DR Optical Module product is suitable for various scenarios, including high-speed data transmission between servers, switches, and routers. It is also an ideal choice for large-scale

Economic Watch: From optical modules to chips -

Huagong Tech, an optical module manufacturer based in central China's Wuhan, launched the world's first 12.8-terabit XPO module in March, bundling the capacity of eight 1.6T modules into a

Optical Module MCUs Become Critical as AI Data Centers Drive

MCU chips for optical modules emerge as a critical semiconductor segment as AI data center buildout drives 800G/1.6T demand, with domestic players GigaDevice and Nations

SFP vs SFP28 vs QSFP28 vs QSFP-DD/OSFP: 2026

A 2026-ready, engineer-focused guide comparing SFP, SFP28, QSFP28, QSFP-DD and OSFP transceivers. Learn decision rules, deployment

800G Optical Module Market Research Report 2034

800G optical modules deliver twice the bandwidth of 400G modules at a cost premium of approximately 60-80% per unit in 2025, translating to a 20-25% lower cost per gigabit, which is the key economic

The silicon photonics supply chain diagram is one of the most

4. Keysight Technologies (KEYS): Every optical module that ships from every fab in that chart has to be tested before it reaches a data center. Keysight is the global leader in electronic and

LightCounting :: Updated forecast for sales of Ethernet transceivers ...

The forecast includes more than 50 product categories, including 100GbE, 200GbE, 400G, 800G, 1.6T and 3.2T transceivers, LPO and CPO, sorted by reach and form factors.

Amazon : YTLINK 800G OSFP 2FR4 Optical Transceiver Module ...

Would you like to tell us about a lower price? Built-in Broadcom 7nm DSP chip, the maximum power consumption is 16.5W.

800G QSFP-DD VCSEL Optical Module

This 800G QSFP-DD optical module is a high-performance solution designed for the demands of modern data centers. It offers incredible flexibility by supporting multiple data rates, making it

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, provides an objective comparison between OEM and third-party products,

Contact Us

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