

800g optical module chip price



Overview

800G OSFP-DR8: \$1,100-1,400 (volume pricing for 1000+ units) 800G QSFP-DD-DR8: \$1,000-1,300 (volume pricing) 800G OSFP-FR4: \$1,500-1,900 (longer reach, more complex optics) 800G LPO (Linear Pluggable Optics): \$700-900 (no DSP, lower cost) 400G QSFP-DD: 800G OSFP-DR8: \$1,100-1,400 (volume pricing for 1000+ units) 800G QSFP-DD-DR8: \$1,000-1,300 (volume pricing) 800G OSFP-FR4: \$1,500-1,900 (longer reach, more complex optics) 800G LPO (Linear Pluggable Optics): \$700-900 (no DSP, lower cost) 400G QSFP-DD: The total cost for the optical transceivers amounted to eight million dollars. His director had asked for a budget estimate for a data center-wide 400G system upgrade. Calculating the costs across 1,200 switch ports using standard Cisco list pricing, David watched the total QSFP-DD spend multiply. Basic electronic chips in a module, such as DSPs and drivers for the transmitter, and TIAs for the receiver, are essential for 400G, 800G, or silicon/non-silicon modules. Typically, 800G silicon photonics optical modules have two silicon photonics chips on the transmitter side, each with four. This guide provides a deep-dive technical comparison of the three dominant 800G module form factors— SR8, DR8, and 2xFR4 —analyzing their trade-offs in cost, power consumption, and link budget. We will also explore how emerging technologies like LPO (Linear Pluggable Optics) and CPO (Co-Packaged. According to recent data from Cignal AI, the [800G optical module] segment is expected to be the fastest-growing through 2025. But for procurement leaders, the real question isn't whether to deploy 800G—it's which technology foundation to choose. EML For. While technical performance dominates discussions about 800G optical modules, cost considerations ultimately determine deployment decisions.

Article Content

\$MXL is up 415% in one month and 20% today. The market is re-pricing ...

The market is re-pricing the scale-up play. Every optical transceiver in every AI datacenter – every 800G module connecting GPU to GPU, rack to rack, building to building – needs a DSP. A

Optical Transceiver Market Size, Share, Industry Report

With strong in-house capabilities in optical chip design and packaging, the company delivers 100G to 800G modules and coherent solutions tailored for 5G transport

800G Guide: SR8 vs DR8 vs FR4 Cost & Power for AI

This guide provides a deep-dive technical comparison of the three dominant 800G module form factors— SR8, DR8, and 2xFR4 —analyzing their trade-offs in cost, power

800G Optical Module Market's Growth Blueprint

The booming 800G optical module market is poised for explosive growth, driven by surging data center demands and 5G deployments. Discover key market trends, leading players (Cisco, Juniper, II-VI),

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034,

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

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.

2026 OFC Showcase

Welcome to the NextGenInfra OFC 2026 Showcase. With the recent AI boom, optical is hot again. This year's OFC saw close to 18,000 attendees from all over the world. NextGenInfra was on site at the

Alibaba-Backed AI Hardware Firm Files HK IPO Amid Margin Squeeze

Haiguang Xinzheng files for a HK IPO after 2025 revenue hit RMB 1.22B. Despite 164% CAGR, net losses widened 459% to RMB 100M amid AI optical module price wars.

800G Silicon Photonics vs. EML: 2026 Cost Analysis & Buying Guide

Why is Silicon Photonics winning the 800G race in 2026? Our latest BOM analysis reveals a \$67 cost advantage over EML. Discover how to optimize your AI data center budget and

800G Optical Transceiver Market Analysis

While the current usage of A100 and H100 includes a mix of 400G and 800G optical transceiver, future trends may lean towards 800G, prompting

Market Insights: 800G & 1.6T Silicon Photonics Optical

This article answers key questions about 800G and 1.6T silicon photonics optical transceivers, covering chip architecture, packaging differences

Over 800G optical transceiver shipments to soar 2.6× by 2026

High-speed optical interconnects are now central to performance and scalability, especially as AI data centers grow into large clusters, according to TrendForce. The report predicts

Broadcom Sian3 and Sian2M: 200G/lane optical

Analyzing Broadcom's Sian3 and Sian2M 200G/lane DSP technologies. Sian3 (3nm/SMF) and Sian2M (5nm/MMF) support 800G and 1.6T

Charting the Path Toward 1.6T and 3.2T Optical Module

The path to 1.6T and 3.2T Transitioning from 800G to 1.6T optical modules as AI workloads in data centers escalate will effectively double the bandwidth capacity

Top 10 Optical Transceiver Manufacturers in the World (2026)

The optical transceiver market is undergoing an unprecedented super-cycle. Fueled by the explosive growth of AI clusters (NVIDIA GPUs), machine learning fabrics, and 5G/6G network deployments,

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

Powering the Next Data Race: How 800G & 1.6T

Research B further reports that the market for high-end data center optical modules will exceed \$9 billion USD in 2024, with 400G and 800G module

800G Optical Communication Module Market

The end user landscape for 800G optical modules spans enterprise networks, hyperscale data centers, and telecom service providers, each presenting distinct performance and integration requirements.

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

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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 linecard Showing two modules inserted into upper and lower ports in a

Optical Transceiver Market Price Trends 2026: TCO & Risks

Discover the real engineering TCO behind optical transceiver market price trends in 2026. Explore 800G thermal risks, LPO failures, and hidden OPEX metrics.

800G Optical Transceiver Components Market Report:

800G Optical Transceiver Components Market size was projected to reach USD 32.04 Bn by 2032, growing at a CAGR of 5.44% during the forecast period 2026

AAOI Applied Optoelectronics, Inc.

Get the latest news and real-time alerts from Applied Optoelectronics, Inc. (AAOI) stock at Seeking Alpha.

AI Data Center Optical Transceiver Module Market 2025-2030

AI Data Center Optical Transceiver Module Market 2025-2030 Posted on Apr-03-2026
The AI data center optical transceiver market has entered a historic growth phase, driven by the exponential

Photonics Is Where AI Infrastructure Meets Physical Limits Copper ...

Sergey (@SergeyCYW). 21 replies. Photonics Is Where AI Infrastructure Meets Physical Limits Copper interconnects are reaching practical limits inside high-performance data centers, which

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