

Offshore Price 800G Optical Transceiver Module



AI Overview

The offshore price for 800G optical transceiver modules typically ranges from \$5,000 to over \$20,000 per unit, depending on module type, vendor, and transmission distance. Price Ranges and Vendor Differences The cost of 800G transceivers varies significantly based on module type and reach. Short-reach modules (e.g., DR8 for in-rack or cross-row connections) are generally priced at the lower end, around \$5,000–\$8,000 per unit from reputable third-party vendors, while long-reach coherent modules (e.g., LR4, ZR, ZR+) can exceed \$20,000 per unit from OEMs due to higher complexity and performance requirements. Volume discounts are common, especially for large-scale data center deployments, which can reduce the effective per-unit cost. Factors Affecting Pricing Technology and Components: 800G modules rely on advanced Digital Signal Processors (DSPs), high-speed lasers (DMLs/EMLs), photodetectors, and optical engines. Silicon photonics (SiPh) is increasingly used to reduce size and cost, but thermal management and insertion loss can impact long-term reliability. Thermal and Power Considerations: High-density 800G deployments require significant cooling infrastructure. Fully populated 64-port 800G switches can consume over 1,000 watts for optics alone, and inadequate cooling can lead to thermal throttling, affecting performance and potentially increasing operational costs. Transmission Distance: Short-reach modules (SR/DR) are cheaper, while long-haul modules (LR/ZR) require coherent optics and higher power, driving up costs. Total Cost of Ownership (TCO): Beyond unit price, TCO includes power consumption, cooling, and maintenance. Third-party modules often offer lower upfront costs but may differ in warranty and support compared to OEMs. Market Trends The 800G optical transceiver market is expanding rapidly due to AI workloads, hyperscale clo...

Article Content

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

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power AI, HPC & next-gen data centers.

A Comprehensive Guide to 400G OSFP Ethernet Optical Transceivers

Comprehensive Product Portfolio In addition to 400G OSFP Ethernet transceivers, NADDOD offers a full range of 1.6T, 800G, 400G, 200G, and 100G optical modules, as well as

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 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

Global 800G Optical Transceiver Market Size, Share, Industry Trends ...

800G Optical Transceiver Market Overview 2026-2033 The 800G optical transceiver market represents a critical frontier in high-speed optical communication technology, designed to

Optical Transceiver Market Size & YoY Growth Rate, 2026-2033

The optical transceiver market is shifting rapidly toward ultra-high-speed modules such as 100G, 400G, and 800G to address the ever-increasing demand for data throughput in cloud

Global 800G Optical Transceiver Market Size 2025

At the heart of this transformation lies the 800G optical transceiver —an advanced module capable of transmitting 800 gigabits per second. As data traffic continues to skyrocket worldwide, these modules

800G Optical Transceiver Market Report 2034

The 800G Optical Transceiver market presents significant opportunities for growth and innovation, particularly as organizations accelerate their digital transformation initiatives in 2025 and beyond.

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

Why Optical Modules Matter Now Exponential Demand Growth: Shipments of 400G and 800G modules exceeded 20 million units in 2024, generating nearly \$9 billion in revenue. The optical

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.

400G vs 800G Optical Transceivers: Which Speed Defines Data

400G remains widely deployed, but 800G adoption is accelerating in AI-driven data centers. Learn how bandwidth, power efficiency and architecture are shaping the transition in 2026.

AI Drives Doubling of 800G Optical Transceiver Shipments in 2025

Furthermore, driven by escalating demands from AI technology, shipments of 800G optical transceivers are projected to grow by 100% year-over-year in 2025. The market will also see the initial shipments

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 data centers. Developments in three distinct areas are needed for 800G

Global 800G Optical Transceiver Market Size, Share, Industry Trends ...

The 800G optical transceiver market represents a critical frontier in high-speed optical communication technology, designed to meet the exponentially growing data transmission demands

Global 800G Transceiver Market Size, Growth Trends, Industry Share ...

The 800G transceiver market is poised for significant growth driven by the increasing demand for high-speed data transmission across various sectors, including telecommunications,

Contact Us

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