German price 800G optical module 1G



Overview

800G OSFP/QSFP-DD | Transceiver Modules The 800G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider network.

Key Takeaways

The price of 800G optical modules typically ranges from €3,000 to €6,000 per unit in Europe, depending on OEM vs third-party sourcing, module type, and features.

Price Overview

For 800G QSFP-DD or OSFP modules, OEM modules are generally more expensive due to guaranteed compatibility, firmware support, and reliability for critical workloads, while third-party modules can cost roughly 60–70% of OEM list prices. In practical terms, this translates to a price range of approximately €3,000 to €6,000 per module in the European market, including Germany, depending on vendor, volume, and module specifications.

Factors Affecting Price

Module Type: Short-reach (SR) modules are cheaper, while long-haul coherent modules (ZR/ZR+) can be significantly more expensive. Power Efficiency: Low-power modules (LPO) can save €45–50 per module per year in operational costs, which may justify higher upfront costs.



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Compatibility and DO

M Features: Modules with Digital Optical Monitoring (DOM) and firmware compatibility for specific switches may command a premium. Volume Discounts: Bulk purchases often reduce per-unit cost, especially for third-party modules.

Total Cost Considerations

Beyond the purchase price, total cost of ownership (TCO) includes power consumption, potential downtime, and replacement cycles. For example, a low-power 800G module may save €700–€750 over a 5-year cycle compared to standard modules, factoring in both energy and upfront savings.

Market Availability

European distributors and vendors such as FS, Mouser, and NADDOD provide ready stock of 800G OSFP/QSFP-DD modules, often with 30-day return policies and local shipping options. This ensures faster deployment for AI, HPC, and enterprise networks. In summary, expect to budget €3,000–€6,000 per 800G module in Germany, with the final cost influenced by module type, vendor, power efficiency, and compatibility requirements.

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 your 800G transceiver

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

Global 800G Optical Module Market Size, Share, Growth Analysis ...

The 800G optical module market represents a critical frontier in high-speed optical communication technology, driven by the relentless demand for bandwidth expansion, ultra-low

800G and 800ZR Ethernet test module | Full-rate and

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Discover EXFO''s 800G Ethernet test module (portable and rackmount): 1G–800G support, 800ZR/ZR+, OTN, Fiber Channel and transceiver validation.

800G Transceiver Modules

The Coherent 800G Modules are powered by a 6nm DSP and consume approximately 17W for 800G optics. The transceivers ensure broad

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

We will explore the emergence, technical standards, packaging, types, and applications of 800G modules, and answer common questions to help you make informed decisions when selecting

Cisco OSFP 800G Transceiver Modules Data Sheet

It is compliant with IEEE 802.3 800GBASE-VR8 and OSFP MSA module requirements with integrated heat sink. Optical signals are carried over eight pairs of parallel lanes, with one

BRKOPT-2699

High-Speed Interconnects: Backend network requires high speed 100G/200G or 800G optics to connect servers and network switches. These high bandwidth connections are essential for handling the data

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

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

800G Optical Transceiver Market size was valued at USD 1.2 billion in 2025 & is estimated to reach USD 5.6 billion by 2034, exhibiting a CAGR of 18.4%from 2026-2034

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

Optical Transceiver Market Size, Share, and Trends Analysis 2032

The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

Global 800G Optical Module Market Size, Share, Growth Analysis ...

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800G Optical Module Market size was valued at 1.5 billion USD in 2025 & is estimated to reach 5.0 billion USD by 2034, exhibiting a CAGR of 15.0%from 2026-2034

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.

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

Key Differences Of 100G, 400G, And 800G Explained

Its core function is to convert electrical signals into optical signals at the transmitting end and convert optical signals back to electrical signals at the

Understanding Optics Module Trends and Growth Dynamics

The Optics Module market is expanding rapidly, driven by data center proliferation and 5G deployment. Analyze the 12% CAGR to $42 billion by 2033 with our market insights.

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

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