Price List for Bestselling Optical Transmitters 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

Bestselling optical transmitters for data centers range from 10G SFP+ modules to 800G QSFP-DD and OSFP modules, with pricing typically varying by speed, reach, and vendor. Popular Optical Transceiver TypesSFP+ (10GBASE-SR/LR) – Common for top-of-rack (TOR) switches and short- to medium-range connections. Ideal for 10G Ethernet links in enterprise and cloud data centers.

SFP28 (25GBASE-SR/LR) – Supports 25G Ethernet, often used in server uplinks and aggregation layers. QSFP+ (40GBASE-SR4/LR4) – High-density 40G modules for aggregation and spine-leaf architectures. QSFP28 (100GBASE-SR4/LR4/CWDM4) – Widely used for 100G Ethernet, supporting both short-range (SR4) and long-range (LR4) deployments.

QSFP-DD & OSFP (200G/400G/800G) – Cutting-edge modules for hyperscale data centers, AI workloads, and 5G infrastructure, offering high bandwidth and energy efficiency.



© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

DWD

M SFP+ and BiDi SFP – Specialized modules for dense wavelength division multiplexing and single-fiber bidirectional links.

Key Vendors and Market Leaders

Coherent Corp., Lumentum, Huawei, HUBER+SUHNER, Cube Optics AG – Leading manufacturers focusing on high-speed, energy-efficient, and compact transceivers for data center and telecom applications. FS.com – Offers a wide range of transceivers from 1G to 800G, tested for interoperability with 200+ switches, and provides global supply and support.

Inno

Light, Eoptolink, Link-Pp – Known for high-performance 400G/800G modules, optimized for AI and hyperscale data center networks.

Pricing Considerations

While exact prices fluctuate based on vendor, volume, and region, general trends include: 10G SFP+ modules: Typically range from $50–$150 per unit for standard SR/LR modules. 25G SFP28 modules: Around $100–$250 per unit, depending on reach and brand. 40G QSFP+ modules: Approximately $200–$400 per unit.

100G QSFP28 modules: Usually $400–$1,200 per unit, with CWDM4 and LR4 variants at the higher end. 200G–800G QSFP-DD/OSFP modules: Premium pricing, often $1,500–$5,000+ per unit, reflecting high-speed performance, thermal management, and AI/data center optimization.

Additional Notes

Transmission distance: Single-mode fiber supports long distances (up to 20 km), while multi-mode fiber is suitable for shorter links (up to 2 km) in LAN or TOR deployments. Compatibility: Ensure modules are compatible with existing switches and network equipment; many vendors provide compatibility tools and lab-tested interoperability. Future-proofing: For AI-driven or hyperscale data centers, consider modular, low-power, and multi-vendor compatible transceivers to support network scaling and 400G/800G upgrades.

For exact pricing and bulk orders, it is recommended to contact vendors directly or use B2B platforms like FS.com, Alibaba, or Link-Pp, as prices vary with volume, region, and module specifications.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

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.

Wholesale Optical Transceivers Module | 100G QSFP28, 40G QSFP

PDF file

Price List for Low-Loss Active Optical Modules for Data Center ...

Find top fiber optic module data center solutions with low latency, high-density ports, and customizable options. Click to explore verified suppliers and secure your network today.

Price List for Low-Loss Optical Modules for Data Center Interconnection

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included. From low data rates to 800GB, we have

Optical Transmitters Product List and Ranking from 13 Manufacturers ...

Optical Transmitters manufacturers, handling companies and product information Reference price is compiled here. IPROS GMS offers comprehensive B2B resources for the Optical Transmitters

FS Transceivers | Premium Optical Transceivers & Fiber Solutions

FS Transceivers offers high-performance optical transceivers, fiber optic modules, and data center connectivity solutions. Compatible with Cisco, Arista, Juniper. Shop 400G/800G transceivers now!

LightCounting :: The TOP10 Transceiver Suppliers for 2024

The figure below illustrates the changes in the TOP10 list of optical transceiver suppliers over the last 15 years. A majority of the Japanese and US-based suppliers exited this market by 2020, while Chinese

best optical transceiver for AI & data centers 2026

This report provides a comprehensive analysis of the optical transceiver market, evaluating top-performing products and emerging technologies based on current sales data, market

Top Optical Transceiver Modules for Data Center Applications

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

This guide explores the most widely used and performance-optimized transceiver modules in modern data centers, categorized by speed, form factor, transmission reach, and use case.

2025 Global AI Data Center Interconnect Trends

AI-driven data centers evolve from single-chip to heterogeneous multi-GPU architectures. High-speed optical interconnects enable scalability,

Data Center Interconnect Market Size, Share & Trends

The global Data Center Interconnect Market size was estimated at USD 13.55 billion in 2024 and is predicted to increase from USD 15.38 billion in 2025 to approximately USD 25.89 billion by 2030,

Optical Signal Transmitter Market 2025

The explosive growth of cloud computing and hyperscale data centers represents another significant driver for the optical signal transmitter market. Modern data centers are transitioning from traditional

Dynamic capacity sharing with multi-wavelength integrated transmitters ...

We verify the accuracy of our computational model through simulations. Comparing the blocking probability of networks with and without multi-wavelength integrated transmitters, we show

Data Center Interconnect (DCI) Market Report, Industry Size

Data Center Interconnect (DCI) Market will witness a robust CAGR of 12.6%, valued at $8.5 billion in 2024, expected to appreciate and reach $18.4 billion by 2030, confirms Strategic Market Research.

Opportunities in networking optics: Boosting supply for data centers

Opportunities in networking optics: Boosting supply for data centers Potential shortfalls in networking optics supply could hinder data center and AI expansion. How can players boost supply and seize

Price list for new optical line terminals for data center interconnection

Deliver scalable optical data center interconnect and data center connectivity to meet growing AI demands with performance, efficiency, and security. How to Choose the Best Optical Line Terminal:

High-Speed Optical Transceivers for Data Center Connectivity

As modern data center networks demand high-capacity data transmission, the significance of high-speed optical transceivers remains crucial. This article delves into the current optical

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

10 companies in the optical transceiver industry chain 2024

The rapid development of AIGC has promoted the demand for 800G optical modules, and the entire industrial chain involving optical components, optical modules, and optical communication

Transceivers in data center interconnect

In 2022, the demand for cloud services will explode, and the capacity, cost of data center interconnection will become several key points. Optical modules play a linking role in data centers,

Contact Us

Continue your research online:

Website: https://alfa-pro.co.za
Technical inquiry: https://alfa-pro.co.za/contact.html

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

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved