

Price list for low-loss active optical devices for data center interconnects



Article Overview

Low-loss active optical devices for DCI range from under \$2,000 for short-reach 400G modules to over \$130,000 for long-haul coherent 800G modules, with active optical cables offering cost-effective, low-power alternatives.

Optical Transceiver Modules

- 400G QSFP-DD SR8 Modules: Short-reach in-rack or cross-row connections typically cost \$1,400–\$1,800 from reputable third-party vendors, providing low-latency, high-bandwidth links suitable for hyperscale data centers .
- 400G/800G DR4 and FR4 Modules: Designed for row-to-row or campus links, prices vary depending on vendor and reach, generally ranging from \$5,000 to \$20,000 for third-party options, while OEM coherent ZR+ modules for long-haul DCI can exceed \$130,000 .
- 1.6T and 800G Silicon Photonics Modules: Advanced low-power modules consume



Article Content

Optical Transport and Data Center Interconnects

Optical Transport and Data Center Interconnects Lumentum solutions address the continually increasing needs for higher data

Optical Interconnect Products and Solutions

Luxshare-Tech optical interconnect products and solutions meet the high reliability, low power, low maintenance and high

Advances in silicon photonics for high-capacity optical interconnects ...

Abstract. We review our recent progress on advanced silicon photonic devices and photonic circuits, including advanced grating

Optical Interconnects for Data Center Networks

Traditional data center networks built with copper wires and electronic elements suffer from various problems. These

Active Optical Components | Data Center Links | HFCL

They offer simple installation, low power, reduced cost, and reliability for mission-critical interconnects in cloud, finance, and high

Data Center Optical Interconnection | High-Bandwidth Transmission ...

In short, high-bandwidth, low-latency, and high-reliability networks are now required for Data Center Interconnect (DCI). Turn to

High-bandwidth, low-loss optical interconnects for AI data centers

The rapid growth of large language models is placing increasing demands on data centers, where large volumes of

Optical Interconnection

Optical interconnection refers to the use of optical technologies, such as vertical-cavity surface-emitting lasers and multimode fibers,

Wholesale AOC Cables | B2B Active Optical Cables -Fibrecross

Discover wholesale AOC cables from Fibrecross. High-performance Active Optical Cable for data centers, HPC, and enterprise

data center optical interconnect hardware 2026

Find top-tier data center optical interconnect hardware with low latency, high bandwidth, and customizable options. Verify supplier

Active Optical Cables | Data Centers | HFCL

HFCL Active Optical Cables integrate optical fiber and embedded transceivers into a single high-performance assembly for data

Top 15 Fiber Optic Manufacturers (2026 Global Ranking)

An authoritative 2026 guide to the top 15 fiber optic manufacturers — from Corning and Prysmian to Fujikura and LS Cable — with

Dac Vs Aoc Vs Optical Modules: Cost & Performance Comparison For

This comparison focuses on three dominant choices— DAC/AOC pairings (Direct Attach Copper and Active Optical Cables) and

2025 Global AI Data Center Interconnect Trends | TrendForce

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

Optical Interconnect Market Size, Share & Trends

Optical interconnects, which use light to transmit data between components in computing systems, are becoming

Bulk Supply for AI Data Center Optical Interconnects · PhoScale

Factory-Direct Volume Supply Bulk Supply Platform for AI Data Center Optical Interconnects 400G / 800G / 1.6T optical transceivers,

Optical Interconnects for Scale-Out Data Centers

Optical interconnects, with reach between 10 m to 2 km, are of utmost importance for datacenters. Regardless of

Optical Interconnect Market Size & Share Report, 2025-2030

Optical interconnects are more energy-efficient than traditional electrical interconnects, making them useful for data centers and high

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

Price List for Low-Loss Active Optical Modules for Data Center Interconnection See practical price ranges for 1G-100G optical

Photonic Interconnects

Photonic interconnects are defined as optical pathways utilized for data transmission in integrated photonics, facilitating efficient

Semtech Data Center Solutions | High-Speed Optical & Copper ...

Our solutions support both single-mode and multi-mode fiber for AI and cloud data centers, delivering up to 50% lower power than

Linear pluggable optics for data centers

Half-Retimed Linear Optics creates an easier composite channel, allowing greater margin and robustness Shorter electrical

Photonic Integrated Circuits: Research Advances and Challenges in ...

Silicon photonics, serving as a cornerstone technology in modern information technology, demonstrates significant

ECEN721: Optical Interconnects Circuits and Systems Spring 2026

Optical Integration Approaches Efficient cost-effective optical integration approaches are necessary for optical interconnects to

Optical Transceiver Market Price Trends 2026: TCO & Risks

Discover the real engineering TCO behind optical transceiver market price trends in 2026. Explore 800G thermal

Photonic Integrated Circuits for Data Center Interconnects

Optical transceivers for data center interconnects (DCI) are projected to become a multi-billion dollar market by the end of this

Chapter 2 Optical Interconnects for Scale-Out Data Centers

Besides using low power optical transceivers for the datacenter, further improvement of network power efficiency can be achieved

Optical Interconnects for Data Center Networks

The reconfigurable nature of optical interconnects in data center networks make them suitable for dealing with traffic

Optical Networks and Interconnects | Springer Nature Link

In this respect, photonics and optical transmission are the only viable technologies for the intra-data center

Data Center Interconnect with Cisco Coherent Pluggable Optics

The solution simplifies transport between data centers by replacing stand-alone optical transponders with the Cisco® portfolio of

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