

Price list for low-temperature resistant active optical components for data center interconnects



Article Overview

Low-temperature resistant active optical modules and cables for DCI range from \$1,400 for short-reach 400G modules to over \$130,000 for long-haul coherent ZR+ modules, with liquid-cooled and immersion-cooled AOCs enhancing performance and energy efficiency.

Pricing Overview

- **400G QSFP-DD SR8 Modules:** Short-reach in-rack or cross-row connections typically cost \$1,400–\$1,800 from reputable third-party vendors, making them the standard entry point for high-speed DCI deployments .
- **Long-Haul Coherent ZR+ Modules:** Designed for extended DCI links, OEM prices can exceed \$130,000, reflecting advanced optics and long-distance capabilities .
- **10G–200G Liquid-Cooled Modules and AOCs:** FiberMall offers liquid-cooled optical modules and AOCs for 10G, 25G, 100G, 200G, 400G, and 800G, reducing operating temperatures by over 30% and improving energy efficiency by up to 40% .
- **Immersion Liquid-Cooled AOCs:** AscentOptics provides AOCs optimized for immersion cooling environments, ensuring reliable high-speed transmission and thermal management in high-performance computing and AI-driven data centers .
- **Low-Loss Active Optical Modules (10G–400G):** CSC Energia lists modules with low power consumption (

Article Content

Recent advances in optical technologies for data centers: a review

There have been considerable advances in high-bandwidth pluggable optical interconnects for the data center. Large-scale data

Opportunities in networking optics: Boosting supply for data centers

Networking optics are mission-critical components in advancing AI and data center infrastructure build-outs. To move the massive

Optical Interconnects for Data Centers

Optical interconnects offer low latency due to the high speed of light transmission. This is particularly important in data

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

Juniper 800G Optical Transceivers and Cables Guide

Fully-retimed optics are especially critical in applications where data integrity and low latency are critical, such as in

Active Optical Cables | Data Centers | HFCL

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

Active Optics Cable Assemblies | TE Connectivity

Greater cable flexibility and longer reach Our active optical cable assembly portfolio provides greater cable flexibility and longer

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

Whether your infrastructure relies on optical or copper interconnects, Semtech delivers the performance needed for AI workloads,

Product-Optical Transceiver-ACON OPTICS

ACON OPTICS" 1.6T, 800G, and 400G optical transceiver series are engineered to meet the rigorous bandwidth and performance

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

Active Optics Cable Assemblies | TE Connectivity

We offer a full line of small form-factor pluggable connectors for 4G, 10G, 25G, 56G, 112g and higher speed applications. Design for

48 Fiber Optic Connector Manufacturers in 2026 | Metoree

48 Fiber Optic Connector Manufacturers in 2026 This section provides an overview for fiber optic connectors as well as their

Optical Transport and Data Center Interconnects

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

Optical Interconnect

Optical interconnects refer to the use of light emitters and detectors to facilitate communication between integrated circuits, allowing

Silicon Photonics Market Size, Share and Trends

The silicon photonics market share has been growing strongly as demands for high-bandwidth, low-latency and energy-efficient data

Fiber Optic Connectors and Adapters

As a leading supplier of advanced fiber optic components, Molex has an extensive product offering that includes a full range of

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Optical interconnect research program

Optical interconnects: pre-competitive, long-term research program Imec's optical interconnect research program develops the key

High-speed Optical Interconnects in harsh environments

These technologies demand robust data center infrastructure to manage exponentially growing data traffic. The speed of data

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.yachtchartercapetown.co.za>

Email: info@yachtchartercapetown.co.za

Phone: +27 21 863 4927

Address: 1st Floor, The Towers, 1 St George's Mall, Cape Town, 8001, South Africa

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