

Price list for DML active optical components for data center interconnects



AI Overview

Directly Modulated Laser (DML) optical components for data center interconnects vary in cost depending on data rate, reach, and form factor, with pricing typically negotiated with vendors rather than publicly listed.

Overview of DML Components

DML-based optical modules are widely used for short- to medium-reach data center interconnects, typically up to 10 km for single-mode fiber applications. They are commonly integrated into:

- Pluggable transceivers (SFP28, QSFP28, OSFP, or OSFP-LPO for higher speeds)
- Active Optical Cables (AOCs)
- On-Board Optics (OBO)

These components convert electrical signals to optical signals using DML lasers and photodetectors, supporting data rates from 25 Gbps to 1.6 Tbps per link, depending on the module and vendor.

Factors Affecting Pricing

Pricing for DML optical components is influenced by:

- Data rate and protocol support:** Modules supporting higher speeds (e.g., 400G, 800G, 1.6T) or multiple protocols (Ethernet, Fibre Channel, InfiniBand, PCIe) are more expensive.
- Reach and fiber type:** Short-reach multimode DML modules are generally lower cost than long-reach single-mode modules, which may require precise wavelength control and higher-quality packaging.
- Form factor and integration:** Pluggable modules (QSFP-DD, OSFP) and AOCs with integrated DMLs are priced higher due to compact design, thermal management, and low-latency performance.
- Vendor and supply chain:** Leading suppliers like MACOM, Cisco, and Amphenol offer proprietary chipsets and modules, and pricing is often negotiated based on volume, service agreements, and customization.

Typical Market Context

Short-reach DML modules (up to 300 m multimode fiber) are widely used in...

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This comparison focuses on three dominant choices— DAC/AOC pairings (Direct Attach Copper and Active Optical Cables) and Optical Modules (standalone transceivers + fiber)—to help architects pick

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25 Gbps Optical Modules

MACOM delivers industry widest portfolio of chip-sets for 25Gbps Long Reach (LR) and Short Reach (SR) optical modules, Active Optical Cables (AOC) and On-Board Optics (OBO).

Active Optical Module Market Research Report 2034

The market encompasses optical transceivers, cables, connectors, and supporting components that enable high-speed data transmission across telecommunications networks, hyperscale data centers,

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800G Data Center Interconnect Guide: DAC, AEC, AOC & Optical

DAC · ACC · AEC · AOC · Optical Transceivers — the complete engineer's framework for choosing the right interconnect for every link in your AI data center. Updated February 2026.

DML & EML Laser: What Drives 10.3% CAGR Through 2034?

The DML and EML Laser market expands at 10.3% CAGR, driven by escalating data demand from telecom and data centers. Analyze key market forces and strategic opportunities.

Optical Interconnect Market Size, Share, Trends Report 2032

Optical Interconnect Market Size Global Optical Interconnects Market reached US\$ 18.58 billion in 2024 and is expected to reach US\$ 50.09 billion by 2032, growing with a CAGR of

QSFP-DD Transceiver Market Evolution: \$26.5B by 2033 Analysis

Key Insights of QSFP-DD Optical Transceiver Market The QSFP-DD (Quad Small Form-factor Pluggable Double Density) Optical Transceiver Market is experiencing robust expansion,

Directly Modulated Semiconductor Lasers Market 2025

Industry estimates suggest that Chinese-produced DML components are priced 15-20% lower than comparable Western products, forcing global players to either reduce margins or lose market share.

Direct Attach Cable Active Optical Cable Market 2025-2032

Direct Attach Cables (DAC) and Active Optical Cables (AOC) are high-speed interconnect solutions used for data transmission in networking environments.

Optical Transport and Data Center Interconnects

Lumentum products, from TrueFlex® transport modules and tunable transmission modules to optical transceivers and pump lasers, enable flexibility and scalability for the broadest range of

Understanding AOC Cables: The Ultimate Guide to

Learn all about AOC cables, including their uses in data centers, electrical-to-optical conversion, and differences from traditional copper cables.

Opportunities in networking optics: Boosting supply for data centers

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