Price list for SFP LPO optical modules for data center interconnection

AI Overview

SFP coherent optical modules for DCI range from under $2,000 for short-reach 400G modules to over $130,000 for OEM 400G/800G ZR+ long-haul modules, with third-party options offering significant savings.Pricing OverviewShort-Reach 400G Modules (SR8): Typically used for in-rack or cross-row connections, priced between $1,400 and $1,800 from reputable third-party vendors, making them the most cost-effective entry point for 400G adoption .Medium-Reach Modules (DR4, FR4): Bridge data center rows or campus links. Third-party competition has driven prices down, though exact figures vary by vendor .Long-Reach Modules (LR4, ZR, ZR+): Used for DCI over longer distances. OEM LR4 modules can exceed $10,000, while coherent ZR+ modules for extended metro or regional interconnects may surpass $130,000 . Third-party alternatives can reduce costs by 30–40% or more.800G QSFP-DD Modules: Pricing is still stabilizing. Buyers can expect 60–70% of OEM list prices for proven third-party 800G transceivers, with OEM modules preferred for critical workloads due to firmware and DOM compatibility .Vendor ExamplesCisco 800G QSFP-DD and OSFP ZR/ZR+ Modules: Support 800G traffic over DWDM links up to 120 km for 800ZR and over 1000 km for 800G ZR+, suitable for single-span DCI or metro/regional interconnects .GIGALIGHT Coherent Modules: Offer 100G, 200G, and 400G pluggable digital coherent optical transceivers compatible with DCI BOX transport platforms, providing cost-effective solutions for long-haul and metro DCI applications .ConsiderationsOEM vs Third-Party: OEM modules are more expensive but may offer better compatibility and support. Third-party modules can provide substantial savings, especially for large-scale deployments .Module Type Selection: The choice between SR, DR, LR, ZR, and ZR+ depends on distance, network topology, and required bandwidth. Coherent mo...

Article Content

Data Center Optical Interconnects: LPO and CPO

LPO is poised to dominate short-reach, cost-sensitive applications within data centers, while CPO will lead in high-performance, long-haul scenarios. As the data center industry continues to evolve, the

800GBASE OSFP/QSFP-DD800 Optics Transceivers Module | FiberMall

The goal is to define pluggable low-cost optical modules for data center applications with short-range 800G transmission, including 8X100G and 4X200G specifications, with transmission distances

Price list for SFP-QSFP28 optical modules for data center interconnection

Optical Transceiver Market Size, Share, Industry Report Industrial cloud deployments and edge data center growth supporting Industry 4.0 initiatives further drive adoption of high-speed 100G to 800G

800G LPO Module: Enabling Low-Cost, Low-Latency Connectivity

Explore how linear pluggable optics (LPO) technology tackles data center challenges. Discover FS''s cutting-edge LPO transceivers for AI/ML and high-performance computing.

What is LPO (Linear-drive Pluggable Optics)?

LPO is short for Linear Pluggable Optics (or Linear-drive Pluggable Optics), it is a potential technology to satisfy the low power consumption and high bandwidth demand of data centers like CPO (Co

CPO vs LPO: A Comprehensive Comparison for Next-Generation Data Center ...

Executive Summary CPO (Co-Packaged Optics) and LPO (Linear Drive Pluggable Optics) represent two revolutionary approaches to addressing the critical challenges of power

Optical Transceiver Pricing: Cost Ranges by Speed and Type

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical guidance for choosing the right optics for a given budget and performance

LPO MSA Announces Release of Specification for Linear Pluggable Optical ...

OFC2025, San Francisco -- The LPO MSA (Linear Pluggable Optics Multi-Source Agreement) Group announced today the completion and availability of the 100 Gb/s per lane Linear

LPO vs CPO: Which Will Dominate the Data Center Optical

In the rapidly evolving landscape of data center optical interconnects, the competition between LPO (Laser Phased-locked Oscillator) and CPO (Coherent Phased-locked Oscillator) is

SFP Module Price: Strategic Cost Analysis and TCO Factors

When upgrading a core switch or expanding a high-density data center fabric, the cumulative cost of optical transceivers can quickly eclipse the capital expenditure (CapEx) of the routing hardware itself.

Comparing DAC/AOC Cables vs. DSP/LPO Optical Modules for Data Center ...

Explore the differences between DAC/AOC cables and DSP/LPO optical modules for data center network interconnects. Learn about the advantages and limitations of each solution and

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.

Broadcom CPO: Highest Power Efficiency and Bandwidth Density

Co-Packaged Optics (CPO) is an advanced integration of optics and silicon on a single packaged substrate addressing interconnect bandwidth and power challenges.

Optical Transceiver Modules Prices & Specifications

Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in high-bandwidth data

The Evolution of Optical Modules: 400G → 800G → 1.6T – A Strategic ...

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and upgrade strategies for future-ready data centers.

LPO vs CPO: Understanding the Future of Data Center Optical ...

LPO, or Linear Drive Pluggable Optics, simplifies optical modules by removing the DSP entirely, relying on host ASICs for analog signal processing. It retains the traditional pluggable form

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

It includes historical shipment data and forecasts for units, prices, and sales of these products to each of the three main market segments: Cloud data centers, Enterprise and Telecom networks.

LightCounting :: March 2025 Ethernet Optics

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SFP Module Price

Find competitive sfp module prices for various optical transceivers. Our range includes 1.25G, 10G, and 25G modules with different reach and compatibility.

SFP Module Types, SFP Transceiver Price List

FS SFP module solutions range from Fast Ethernet to Gigabit Ethernet speeds. fibre and copper SFP transceivers can be selected in connector type, fibre type and protocols to meet your requirements.

CPO (Co-Packaged Optics): A Key Technology Path for Optical ...

Co-Packaged Optics (CPO) is emerging as a critical technological path for optical interconnects in AI data centers. This article delves into the principles of CPO, its performance

Contact Us

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

Website: https://umele-pestovani.eu
Email: info@umele-pestovani.eu
Phone: +49 152 287 6349
Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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