Optics & Photonics

Adicor Photonics Europe S.A.

Price List for Intelligent Optical Modules for Data Center Interconnection

AI Overview

Intelligent tunable optical modules for DCI range from under $2,000 for short-reach 400G modules to over $130,000 for high-end coherent ZR+ modules, depending on type, distance, and vendor.Price Ranges by Module TypeShort-Reach 400G (SR8): Typically used for in-rack or cross-row connections, priced between $1,400 and $1,800 from reputable third-party vendors, offering cost-effective entry into 400G deployments .Medium-Reach (DR4, FR4): Bridge data center rows or campus links; prices are competitive due to third-party market pressure, generally $3,000–$6,000 depending on vendor and distance .Long-Reach (LR4, ZR, ZR+): Designed for metro or regional DCI; OEM LR4 modules can exceed $10,000, while coherent ZR/ZR+ modules for long-haul DCI can surpass $130,000 .Vendor-Specific OfferingsHuawei: Offers a full range from GE to 800GE optical modules with features like ultra-long transmission, high reliability, and secure operation. Modules are pluggable and support flexible deployment across AI-era data centers .Marvell: COLORZ® 400 and 800 modules provide QSFP-DD or OSFP form factors for metro and regional DCI, supporting distances up to 1,000 km at 800 Gbps. These modules reduce capital costs compared to traditional coherent transport systems .Cisco/NADDOD: The QDD-400G-ZR-S is a 400G tunable coherent QSFP-DD transceiver supporting up to 40 km unamplified transmission, widely deployed in hyperscale data centers for edge interconnection .Lumentum: Offers tunable transmission modules, ITLAs, coherent receivers, and modulators covering a broad range of tunable optical products for scalable DCI networks .Key ConsiderationsTransmission Distance: Prices increase significantly with longer reach and coherent technology.Form Factor: QSFP-DD and OSFP are common; OSFP may offer higher density for 800G deployments.Vendor vs...

Article Content

Transceiver Modules for Data Center Interconnect

Learn how and where to implement Cisco Optics solutions to gain the reach you need for connecting data centers across your metro areas and beyond.

StarryLink Optical Module

Huawei''s StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios, delivering customers an ultra-reliable, long-distance, and highly secure

Optical Data Center Interconnect

Deliver scalable optical data center interconnect and data center connectivity to meet growing AI demands with performance, efficiency, and security.

How optical interconnect and optical processing are changing data centers

Although optics has been used in data centers for decades, it is now reaching further and further into the beating heart of the data center - the processors and accelerators that run the data

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 transceivers, DAC/AOC options, and why cost varies by speed, reach

Optical Switching Data Center Networks: Understanding Techniques

This paper first summarizes the topologies and traffic characteristics in data centers and analyzes the reasons and importance of moving to optical switching. Recent techniques related to the optical

optical interconnect solution |FiberMall

The cloud computing business continues to infiltrate and drive the construction of cloud computing hyper-data centers. The cloud IT infrastructure is mainly composed of switches, servers and optical

Data Center Optical Interconnection Solution

Digitalization and intelligence drive the development of distributed cloud-based data centers. DCI needs high-bandwidth, low-latency, and highly-reliable intelligent

Optical Interconnect Technology Analysis: LPO, NPO, CPO

Exploring optical interconnects for AI data centers: LPO for low-power, short-distance links, NPO for high-density, near-package connections, and CPO for ultra-high-bandwidth co

Recent advances in optical technologies for data centers: a review

Modern data centers increasingly rely on interconnects for delivering critical communications connectivity among numerous servers, memory, and computation resources. Data center

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.

Optical Module Procurement Guide

Based on the most recent data we assembled, we included manufacturer prices, cost, warranty period, and end-user input reflecting reliability assessment, and share the detailed

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

Data Center Optical Interconnection Services between super and large data centers, such as data synchronization and service Disaster Recovery (DR), have resulted in surging traffic between data

800G Optical Module Cost Analysis | TCO Optimization Guide

Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis, cost comparison, vendor strategies, and ROI calculations for informed

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 Modules in Intelligent Computing Scenarios

Huawei provides a full series of pluggable optical modules. A wide variety of modules give you flexible plug-and-play options for all types of interfaces.

Optical interconnection networks for high-performance systems

Turning to the data center, we review the requirements for scaling and improved resource utilization and the need for high-bandwidth intradata center links and the move toward disaggregation. We see that

Data Center Optical Module Market Research Report 2034

The Data Center Optical Module market was valued at $16.9 billion in 2025 and is projected to reach $77.6 billion by 2034, growing at 18.5% CAGR.

Optical Interconnect

12.4.1 Optical interconnection Although long distance fiber-optic systems can be considered part of optical interconnection between terminals geographically located far apart, optical interconnects

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.

2025 Global AI Data Center Interconnect Trends

Shipments of Optical Transceiver Modules in 2025 Have Shown Growth for High-Spec 800G and 1.6T Modules AI Data Center Architectures Are

Optical Interconnect Market Size, Share & Trends

Rise in Data Center Traffic Boosts Higher Adoption of Optical Transceivers On the basis of product type, the optical interconnect market is categorized into cable assemblies, connectors,

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

Price list for SFP-QSFP28 optical modules for data center

Compare top SFP module manufacturers on price & quality. From SFP/SFP+/SFP28 to QSFP28, see which suppliers deliver reliable performance for data centers & ISPs.

DCI Optical Modules | Delivering high bandwidth over distance

Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks.

Global Optical Module and DCI Market Size, Growth Trends, Industry ...

The Optical Module and Data Center Interconnect (DCI) market represents a critical segment within the broader optical communications industry, serving as the backbone for high

Intelligent OptiX Network | OptiX | All-Optical Networking

Huawei''s intelligent OptiX network strategy aims to build intelligent, simplified, ultra-broadband, and ubiquitous next generation all-optical networks.

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 Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

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