

Price list for EML low-power optical modules for data center interconnection



Overview

This guide explores the most widely used and performance-optimized transceiver modules in modern data centers, categorized by speed, form factor, transmission reach, and use case. It integrates advanced EML transmitter and APD receiver technologies, offering low power consumption, high reliability, and compliance with industry standards. Typical small form-factor transceivers (SFP / SFP+) are designed to be energy efficient: many optical SFPs consume roughly. Lumentum's 200G electro-absorption modulated laser (EML) is our next-generation product for high-density, energy-efficient optical connectivity. Combine service modules, amplifiers and ROADMs in a single chassis Optimize your network performance for connectivity across town or across the country using a single line card Ekinops360.

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This high-performance optical transceiver module supports 10Gb/s data transmission over single-mode fiber up to 80km. It integrates advanced EML transmitter and ...



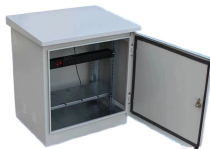
This series of products uses a pair of single-mode optical fiber for transmission, the center wavelength is 1310nm, the distance can reach up to 10km, and the working temperature range of industrial grade is ...



The GIGALIGHT 50G SFP56 DR optical transceiver module is used for short-to-medium distance interconnection in data centers and complies with 50G Ethernet transmission protocol.



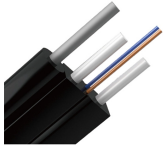
Ekinops optical transport solutions for data center interconnection optimize cost and performance to deploy as much capacity as possible in the minimum space possible using as little power as possible.



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The 1.6T OSFP-XD DR8 optical module features low power consumption, high density, and hot-pluggable design, making it widely used in AI, HPC and hyperscale data centers.



Designed for CWDM4 operation at 1271, 1291, 1311, or 1331 nm, it supports 115GBd PAM4 signaling for 200G-per-lane transmission in DR and FR links up to 2 km. The 200G EML provides high bandwidth, ...



This paper describes the technical route of optical communication from 400G to 800G to 1.6T optical modules and compares pluggable and CPO.



Choosing low-power optical modules today is one of the simplest, lowest-risk ways to reduce OPEX and improve sustainability without changing architecture or vendor lock-ins.



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Compare EML, VCSEL, and CW laser technologies in optical transceivers. Covers cost, reach, speed, the 2025 EML shortage, and silicon photonics alternatives.

Contact Us

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