

Preferred Optical Module Suppliers



Overview

Data Center Operators: Prefer vendors like Infinera, NeoPhotonics, or II-VI for high-speed, scalable modules supporting 400G+ speeds.

Key Takeaways

The best optical module supplier depends on your application, required data rates, and deployment scale, with top vendors including Innolight, Eoptolink, Cisco, Broadcom, and Sumitomo Electric.

Key Considerations

When selecting an optical module supplier, evaluate the following factors: Data Rate & Bandwidth: Ensure the supplier supports your required speeds, from 10G to 800G, including emerging 400G and 800G modules for hyperscale data centers. Form Factor & Compatibility: Check compatibility with SFP, QSFP, CFP, or other transceiver standards to ensure seamless integration. Reach & Transmission Distance: Choose vendors offering modules suitable for short-range (10 km) applications.

Reliability & Durability: Consider MTBF, thermal stability, and environmental resistance, especially for telecom backbone or high-density data center deployments. Vendor Support & Ecosystem: Strong technical support, firmware updates, and integration with network equipment are critical for operational efficiency. Cost & Total Cost of Ownership: Evaluate not just purchase price but also energy consumption, maintenance, and upgrade costs.



Top Suppliers by Application
Data Centers & Cloud Providers: Innolight and Eoptolink excel in high-speed Ethernet transceivers, including 400G and 800G modules, with strong relationships with major cloud providers like Meta, Google, and Amazon. Cisco and Broadcom offer versatile, cost-effective modules suitable for enterprise and cloud deployments. **Telecom & Long-Haul Networks:** Sumitomo Electric and Coherent (II-VI) provide reliable long-reach modules, including DFB and EML lasers, ideal for backbone networks.

High-

Performance Computing: NeoPhotonics and InnoLight specialize in ultra-high-speed modules with advanced modulation techniques for HPC environments.

Market Trends

Chinese suppliers like Innolight and Eoptolink have rapidly improved their global rankings, focusing on high-speed modules and cloud service providers. Vendor consolidation is ongoing, with companies like Cisco and Broadcom acquiring specialized firms to expand technological capabilities. Supply chain considerations are increasingly important, especially for companies affected by geopolitical restrictions or sourcing challenges.

Recommendation

Select a supplier based on your specific use case: For hyperscale data centers, prioritize Innolight or Eoptolink for cutting-edge 400G/800G modules. For telecom backbone networks, Sumitomo Electric or Coherent provide proven long-reach reliability. For enterprise or mixed deployments, Cisco, Broadcom, or Finisar offer flexible, cost-effective solutions.

Validating suppliers through pilot deployments is recommended to ensure performance, compatibility, and reliability before large-scale procurement.

Article Content

The latest ranking of the TOP10 global optical module suppliers ...

A few days ago, LightCounting, a well-known market research organization in the optical communication industry, released the latest market report and updated the TOP10 ranking of global

Top 10 Optical Module Brand & Manufacturers

After more than 20 years of hard work, O-Net Technology has grown into the world's largest supplier of optical communication components, modules and subsystems, and has taken the lead in multiple

Top Optical Modules Companies & How to Compare Them (2025)

Data Center Operators: Prefer vendors like Infinera, NeoPhotonics, or II-VI for high-speed, scalable modules supporting 400G+ speeds. Telecom Providers: Should consider Sumitomo Electric

Global Optical Module Suppliers TOP10 Ranking Changes

Below are the changes in the global optical module supplier TOP10 ranking from 2021 to 2023, published by LightCounting, a market organization in the optical communications industry:

Top 10 Optical Module Manufacturers' Annual Reports ...

By 2025, its 800G optical module shipments will exceed 5 million units, making it the global "shipment champion" in the optical module industry, demonstrating significant economies of

Custom Optics – Buyer's Guide & Supplier List | RP

This buyer's guide for custom optics provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

10 companies in the optical transceiver industry chain 2024

To help you choose the best partner, this article will analyze and introduce 10 companies in the optical transceiver industry chain for you.

Optical Components | Suppliers | Photonics Buyers' Guide | Photonics ...

Explore 1,290 top manufacturers and suppliers of Optical Components in our comprehensive photonics buyers' guide.

RP Photonics Buyer's Guide

Here you find all 1765 registered suppliers in alphabetical order. Click on a letter to find the suppliers beginning with that letter (or with a digit) more quickly: Display filter for continents: Another way of

NVIDIA Announces Strategic Partnership With

NVIDIA today announced multiyear strategic agreements with Lumentum Holdings Inc. (NASDAQ: LITE) to accelerate innovation in advanced

Inside Nvidia's \$4B Optical Strategy—and Why CPO

What Each Company Supplies in the CPO and Optical Ecosystem Coherent and Lumentum: Lasers, Silicon Photonics, and Nvidia's CPO Supply

AI Data Centers Ignite a Laser Shortage Wave; Nvidia's Strategic

Optical module manufacturers and CSPs are now actively searching for secondary suppliers and alternative designs, changing the competitive landscape within the laser industry.

Optical Module PCB: The Ultimate Guide to Design, Fabrication, and ...

This guide serves as an in-depth resource for engineers, designers, and project managers involved in the development of optical module PCBs. It will explore the complete product lifecycle, from design

JPC Connectivity FY2026 Q2 Earnings Call: Revenue Hits New High,

JPC Connectivity has achieved breakthrough progress across optics, copper, and power segments. In particular, the mass production timelines for 1.6T optical modules and AEC, along with

Top 10 Global Optical Modules in 2023: Chinese

Recently, LightCounting, a market research institution in the optical communication industry, released the latest version of the 2023 global optical

Senior Optical Transceiver Engineer

Proven experience in optical transceiver validation and laboratory sing Experience in s automation of validation setups Preferred programming languages: PythonLabVIEW Python

Top 10 Optical module manufacturers in the World 2025

Are you curious about which optical module manufacturers stand out in today's competitive market? Understanding the top factories is crucial for making informed decisions. By knowing the best

The latest ranking of the TOP10 global optical module suppliers ...

The figure above illustrates the changes in the list of TOP10 optical module suppliers over the past 12 years. LightCounting pointed out that since 2018, most suppliers in Japan and the

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

