Optical Interface Module Manufacturer



Overview

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

Key Takeaways

Leading optical interface module companies include Cisco, Coherent, Accelink, Suzhou TFC, eoptolink, and innovative startups like Akhetonics and Alcyon.

Major Established Companies

Cisco offers high-performance optical modules for AI data centers and enterprise networks, including 400G to 1. 6T pluggable optics, QSFP-DD, OSFP, and QSFP112 modules. Their solutions integrate advanced photonics, digital signal processing (DSP), and silicon photonics to optimize performance, efficiency, and reliability for large-scale AI workloads.

Coherent provides coherent transceivers, active optical cables, lasers, and photonic devices for hyperscale and enterprise data centers. Their silicon photonics-based 1. 6T-DR8 transceiver modules leverage advanced DSPs to reduce power consumption, minimize OEO conversions, and improve latency for GPU and AI server connections.

Accelink Technologies is a leading Chinese supplier specializing in optoelectronic devices and subsystems. They offer solutions across chips, modules, and systems for telecom, data communication, and broadband access networks. Accelink focuses on silicon photonics, III-V, and planar optical waveguide (PLC) platforms, supporting high-speed lasers, detectors, and advanced packaging technologies.

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Suzhou TF

C Optical Communication provides vertically integrated optical devices, including high-speed optical engines for 200G/400G/800G modules. They focus on ODM/OEM foundry services, packaging, and large-scale production for 5G and data center applications. Eoptolink Technology manufactures high-speed optical modules in China, serving data center and telecom markets with a range of pluggable optics and optical engines.

Innovative Startups

Akhetonics (Germany) develops all-optical general-purpose processors, integrating optical interfaces, processing, and memory to reduce power consumption and scale bandwidth efficiently. Alcyon (Spain) focuses on silicon photonics and photonic integrated circuits (PICs), offering IP cores and design services for optical signal processing and AI data center connectivity. Other startups tracked by Cignal AI are exploring quantum dot lasers, heterogeneous silicon photonics, and 3D optical interconnects for AI nodes and high-performance computing applications.

Industry Trends

The optical interface module market is rapidly evolving due to AI/ML and high-speed data center demands. Key trends include: Silicon photonics integration for higher bandwidth and lower power consumption. Coherent optics to reduce OEO conversions and improve latency.

High-density pluggable modules (400G–1. 6T) for scalable AI and HPC networks. Vertical integration from chip to module to system for faster deployment and reliability.

Emerging startups focusing on all-optical processing and photonic ICs to complement traditional electrical-optical solutions. These companies collectively drive innovation in optical networking, enabling faster, more efficient, and scalable data center and telecom infrastructures.

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Frequently Asked Questions

What does an optical transceiver do?

Optical modules are mainly packaged by optoelectronic devices TOSA/ROSA, functional circuits and optoelectronic interface components. The optical t...

What is the optical module industry chain?

The upstream industry of optical modules mainly includes optical chips, optical components and optical devices, and the downstream industry mainly...

Who are the main manufacturers and suppliers in the optical module industry chain?

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Article Content

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.

Top 10 Optical Module Brand & Manufacturers

Operating and using optical modules correctly may require some technical knowledge, and the manufacturer should offer resources such as user manuals, online tutorials, and customer support to

Optical module

OverviewElectrical Interface TypesOptical modulation and multiplexing typesIn-module componentsElectrical cable equivalentFront panel optical module MSAsOn-Board Optical module MSAsUsers of Optical Modules

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside world through a fiber optic cable. The form factor and electrical interface are often specified by an interested group using a multi-source agreement (MSA). Optical modules can either plug into a front pa

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Optical Transceiver Market: Top 10 Manufacturers Ranked

Optical transceiver market leaders: the top 10 manufacturers powering 400G and 800G modules for hyperscale data centers and AI networking.

Optical Component Startup Tracker

POET''s challenge will be to find a major manufacturer who is willing to take a chance with a new way of putting together optical modules. The current

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP-40G-CSR-S (S-Class) The QSFP-40G-CSR-S is a pluggable optical transceiver with a duplex LC connector interface used for connectivity using MultiMode Fiber (MMF).

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Zhongji Innolight: AI''s Most Contested Chinese Supplier

Chinese optical module manufacturers produce an estimated 70% of global supply and offer pricing at a significant discount to Western competitors. Innolight earned its positions with

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How Intel Foundry Packaging Technologies Redefine AI and HPC ...

AI and HPC systems are pushing packaging technologies to their limits. At ECTC 2026, Intel Foundry engineers and collaborators shared research on how current EMIB-T, developing co

Cisco SFP and SFP+ Transceiver Module Installation Notes

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These transceiver modules are hot-swappable

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Additional source notes

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