

What manufacturers produce high-speed optical modules



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 high-speed optical module manufacturers include Innolight, Eoptolink, Coherent Corp., ESTEL, TXOE, Hyper Photonix, Accelink, Lumentum, Sumitomo Electric, and Huawei, offering products from 100G to 1.6T for data centers, telecom, and AI infrastructure.

Key Manufacturers and Capabilities

Innolight (Zhongji Innolight Co., Ltd.) is a global leader in datacom optical modules, providing high-speed solutions such as 100G, 200G, 400G, and 800G, with first-mover advantages in coherent and 800G modules. Their clients include major cloud vendors like Meta, Google, and Amazon, and they serve both telecom and data center markets. Eoptolink Technology Inc., Ltd. specializes in high-speed optical modules, including point-to-point and PON modules.

They offer over 2,800 product types, covering data broadband, Fttx, data centers, and smart grid applications. Eoptolink is expanding in silicon photonics and 800G modules, providing PAM4 and single-wavelength 100G solutions. Coherent Corp. (USA) provides optical components and transceivers for datacom and telecom, including 400G ZR/ZR+ coherent links and 800G/1.6T.



6T modules. They focus on integrated optics and silicon photonics to enhance transmission capacity and energy efficiency.

ESTE

L (Europe/USA) designs and manufactures high-performance optical transceivers for data centers, metro, and long-haul networks. Their modules include 100G, 400G, and 800G, with rigorous testing and local production ensuring quality and supply chain security.

TXO

E (Texas Optical Electronics LLC) produces 1.6T, 800G, and 400G optical transceivers for AI infrastructure and hyperscale data centers. They support InfiniBand and Ethernet platforms, with annual production capacity up to 9 million modules.

Hyper Photonix offers high-speed optical transceivers from 40G to 1.6T, integrating silicon photonics and advanced packaging. They serve hyperscale data centers, AI/ML computing, supercomputing, telecom, and 5G networks, emphasizing high-volume automated manufacturing and testing.

Accelink Technology Co., Ltd. (China) develops optical transceivers and components for high-speed networks, focusing on cost-efficient, reliable performance for telecom operators and data centers.

Lumentum Operations LL

C (USA/Asia-Pacific) manufactures 400G and 800G modules, emphasizing coherent optics and integrated laser technology for cloud and data center applications. Sumitomo Electric Industries Ltd. (Japan) provides optical transceivers for datacom, metro, and long-haul networks, supporting 5G and data center connectivity with advanced photonic integration. Huawei Technologies Co., Ltd. offers a broad range of optical transceivers for backbone and metro networks, including coherent and silicon-based photonic modules, supporting high-throughput, low-latency 5G and data center applications.

Summary

These manufacturers collectively cover a wide spectrum of high-speed optical modules from 100G to 1.6T, supporting data centers, AI infrastructure, telecom networks, and hyperscale deployments. Many leverage silicon photonics, coherent optics, and advanced packaging to enhance performance, energy efficiency, and integration.

Selection depends on factors such as geographic presence, production scale, technology specialization, and compatibility with network architectures.

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

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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 Leading Companies in the Global Optical Transceiver Industry

Here are the Top 10 leading companies in the global optical transceiver market, driving innovation, scalability, and global deployment. Coherent Corp. (US) Formerly known as II-VI

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In this article, I share my insights on the top optical transceiver manufacturers in 2023. The top optical transceiver manufacturers I have come to trust include Coherent Corp., INNOLIGHT, Accelink

Optical Transceiver Companies

In November 2023, Accelink Technology Co. Ltd. opened a new subsidiary, Phabritek, in Malaysia to manufacture high-end optoelectronic modules and components for advanced communication

Global High-Speed Data Communication Optical Modules Market

Chapter 2, to profile the top manufacturers of High-Speed Data Communication Optical Modules, with price, sales quantity, revenue, and global market share of High-Speed Data Communication Optical

10 companies in the optical transceiver industry chain 2024

The optical module is in the middle of the industrial chain, and the upstream industry of optical modules mainly includes PCB, optical chips, optical

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Telecommunication and Optical Sensing Solution As a semiconductor foundry company, handling everything from the design to the manufacturing of optical/ultra high-speed electronic devices.

Top Optical Transceiver Manufacturers List (2024)

InnoLight offers a complete line of optical modules for 100G, 200G, 400G, and 800G applications. Like II-VI (Finisar), InnoLight focuses on the high

Optical Transceiver Companies

Hisense recognizes the crucial role that packaging plays in this transition and positions it as a key differentiator for its optical modules. It pioneers innovative packaging technologies in the optical

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.

Top 10 Optical Module Brand & Manufacturers

Zhongji Innolight Co., Ltd. (SZ: 300308) is a professional high-speed optical module solution provider and a technology-innovative enterprise integrating R&D, design, packaging, testing and sales of high

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

It converts high-speed optical signals to digital, filters noise, and aligns timing. In 800G transceivers, the DSP accounts for a significant portion of total module power consumption and is the

10 Leading Optical Transceiver Manufacturers in the US

Find your perfect optical transceiver supplier from these 10 leading optical transceiver suppliers in North America. Buying from reliable sources means excellent service.

Top 10 Leading Companies in the Global Optical Transceiver Industry

A rising force in high-speed optical interconnects, INNOLIGHT has become a key supplier to hyperscale cloud companies across the globe. Known for rapid product development and

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