

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 Overview

Leading brands in optical modules include Innolight, Eoptolink, Huagong Tech, Linktel, and Accelink, while top optical switch manufacturers feature companies like Agiltron, Keysight, and Thorlabs.

Optical Module Manufacturers

Optical modules, also known as optical transceivers, are essential for high-speed data transmission in telecommunications, data centers, and 5G networks. Major manufacturers include:

- o Zhongji Innolight Co., Ltd. - Specializes in high-end optical communication transceiver modules, offering 100G, 200G, 400G, and 800G solutions for cloud data centers and telecom networks, integrating R&D, design, packaging, and testing .
- o Eoptolink Technology Inc., Ltd. - Focuses on high-speed optical modules and devices for ICT industries, including data centers, FTTx, LTE, and smart grids .
- o Huagong Tech - Provides optical modules and components for telecom and data communication networks .
- o Linktel - Offers a range of optical transceivers and related solutions for high-speed networking .
- o Accelink Technologies Co., Ltd. - Covers the full industry chain from optical chips to modules and subsystems, with expertise in silicon photonics, III-V, and planar optical waveguide technologies . Other notable suppliers include CIG Shanghai Co., Ltd., which also provides optical modules and components for telecom and data networks .

Optical Switch Manufacturers

Optical switches are devices that route or block optical signals without converting them to electrical signals, maintaining high-speed performance. They are used in telecommunications, laser systems, test setups, and quantum networking. Key manufacturers include:

- o Agiltron - Offers MEMS-based and mechanical optical switches suitable for high-speed multi-channel

applications .

- o Keysight Technologies - Provides optical switches for test and measurement, laser pulse generation, and network routing applications .
- o Thorlabs - Supplies a wide range of optical switches, including mechanical, MEMS, and thermo-optic types for laboratory and industrial use .
- o Other notable brands - Include companies listed in industry reports such as those compiled by Mordor Intelligence, which rank top optical switch companies based on market share and technological capabilities .

Types and Applications

Optical switches can be classified by switching method:

- o Mechanical switches - Move optical elements physically to redirect light.
 - o MEMS switches - Use micro-mirrors controlled by electrostatic forces for fast, multi-channel switching.
 - o Thermo-optic (bending) switches - Alter the refractive index of waveguides using localized heating .
- Applications include telecommunications routing (ROADM), fiber cross-connects, laser pulse selection, automated test setups, safety shutters, and quantum networking .

Summary

For high-speed optical communication, Innolight, Eoptolink, Huagong Tech, Linktel, and Accelink are leading optical module brands, while Agiltron, Keysight, and Thorlabs are prominent optical switch manufacturers. Selection depends on application requirements, such as data rate, switching speed, and integration needs, with MEMS and thermo-optic switches favored for high-speed, multi-channel systems, and mechanical switches for simpler or cost-sensitive setups .

Connect Optical Transceivers of Different Brands, Fibers or Wavelengths? Optical transceivers usually work

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to

This section provides an overview for sfp modules as well as their applications and principles. Also, please take a look at the list of 13

GLSUN, the leading optical switch module manufacturer in China, producing multichannel optical switches, rotary optical switches,

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module

Type of Optical Module: Choose the right type of optical module based on factors such as form factor, application scenario, and

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

Explore the fundamentals of optical switching, including space, wavelength, time, and hybrid switching

POLATIS ® Series 6000 Optical Switch Modules (OSM) are high-performance, fully non-blocking all-optical matrix switch modules

Discover the top 11 fiber optic switch modules for 2026 networking that can elevate your

Find your optical switch module easily amongst the 3 products from the leading brands (YOKOGAWA, COHERENT, ...) on

Explore the latest trends in top optical switches companies, highlighting innovations in silicon photonics, AI data centers, and high

Introduction Optical modules are critical components in fiber optic communications, enabling the conversion between

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules

Compare Fiber Optic Switch modules by channel count, wavelength range, loss, and speed on FindLight. Source precisely specified

Are you curious about which optical module manufacturers stand out in today's competitive market? Understanding the top factories

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