Two different brands of multimode optical modules



Overview

As fiber optic networks continue to evolve, selecting the right optical transceiver becomes increasingly important.

Key Takeaways

Key multimode optical module brands include Cisco, II-VI Incorporated, Broadcom, Intel, Accelink Technologies, Amphenol, Molex, E. C. I.

Networks, and NVIDIA.

Leading Global Brands

Cisco: A major player in networking and optical modules, offering multimode transceivers for data centers and enterprise networks. II-VI Incorporated: Specializes in high-performance optical modules, including multimode solutions for short-reach applications. Broadcom: Provides optical chips and modules, including VCSEL-based multimode modules for 10G, 25G, and 100G links.

Intel: Supplies multimode optical modules and components, often integrated into data center solutions. Accelink Technologies: A Chinese manufacturer focusing on multimode and single-mode optical modules, including 25G, 50G, and 100G products. Amphenol: Offers a range of optical transceivers and multimode modules for enterprise and data center networks.

Molex: Provides multimode optical modules and connectors for high-speed short-reach applications. E. C.

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I. Networks: Supplies multimode optical modules for telecom and enterprise networks.

NVIDI

A: While primarily known for GPUs, NVIDIA also produces optical interconnect solutions for high-performance computing, including multimode modules.

Emerging and Regional Players

Innolight (Zhongji Innolight Co., Ltd.): Focuses on high-end optical communication modules, including 100G, 200G, 400G, and 800G multimode modules, with strong presence in cloud data centers. Huagong Tech, Linktel, CIG Shanghai Co., Ltd.: Chinese companies rapidly gaining market share in multimode optical modules, especially for 25G and 50G applications. Yuanjie Semiconductor and Shijia Photons: Specialized in VCSEL chips and optical components for multimode modules.

Key Chip Considerations

Multimode optical modules rely on VCSEL (Vertical-Cavity Surface-Emitting Laser) chips for short-reach transmission, typically at 850 nm or 1310 nm wavelengths, along with photodetectors (PIN or APD) and driver ICs for E/O and O/E conversion. These components are critical for data rate stability, power efficiency, and signal quality over short distances, making the choice of brand and chip supplier important for performance.

Summary

For short-reach, high-speed multimode applications, Cisco, II-VI, Broadcom, Intel, Accelink, Amphenol, and Molex are widely recognized global leaders, while Innolight, Huagong Tech, and Yuanjie Semiconductor represent strong emerging players, particularly in the Chinese market. Selecting a brand often depends on data rate requirements, distance, and integration with existing network infrastructure.

Article Content

The Difference Between Single/Dual Fiber and

As fiber optic networks continue to evolve, selecting the right optical transceiver becomes increasingly important. Whether you''re designing a short

Multi-mode optical fiber

OverviewApplicationsComparison with single-mode fiberTypesEncircled fluxExternal links

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Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a campus. Multi-mode links can be used for data rates up to 800 Gbit/s. Multi-mode fiber has a fairly large core diameter that enables multiple light modes to be propagated and limits the maximum length of a transmission link because of modal dispersion. The standard G.651.1 defines the mos

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4

A complete guide to multimode fiber types OM1, OM2, OM3, OM4, and OM5. Compare speed, distance, bandwidth, and applications, and learn how

The Key Differences Between 1-core, 2-core, Single Mode, and

For example, a product labeled "10G 1core Single Mode SFP+" is a 1-core SM module. A "40G 2core Multi-mode QSFP+" is a 2-core MM module.

The Ultimate Guide to SFP Modules (2026): Types, Speeds

Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco, Juniper, and more.

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber, OM4 fiber and newly released OM5 fiber. The next part will compare

How to Choose the Right Multimode and Singlemode Optical Modules

In this post, we will explore the selection criteria, technical benefits, and deployment recommendations for Multimode and Singlemode optical modules, helping you make the best

Single-mode vs Multimode SFP 2026: Fiber Types and distances

"What is the difference between single-mode SFP and multimode SFP, and which should I choose in 2026?" This article provides a full, modernized comparison including:

Multimode Fiber: Differences Between OM1, OM2, OM3, OM4, and OM5

Discover the key differences between OM1, OM2, OM3, OM4, and OM5 multimode fibers. This guide covers core sizes, bandwidth capabilities, and their roles in enhancing network

Selecting the Right SFP Module for Single-Mode and Multimode Fiber

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Learn how to select the right SFP module for single-mode and multimode fiber by understanding wavelength, distance, compatibility, and industrial network requirements.

Singlemode vs Multimode Fiber Optic Cable

We breakdown the differences between single mode and multimode fiber optic cable, covering aspects like physical structure, bandwidth over

Understanding 800G Optical Modules: Types, Applications, and

Understanding 800G Optical Modules: Types, Applications, and Solutions by Optech As the demand for faster data transmission continues to surge, 800G optical modules have gained widespread attention

Key Differences Between Single-Mode and Multimode Optical Modules

Compare single-mode and multimode optical modules by core size, distance, speed, and cost. Choose the right module for your network''s needs.

The Difference Between Single-mode and Multi-mode Optical Modules

The differences between single mode fiber transceiver and multi-mode optical modules can be categorized into several key areas: physical characteristics, performance, cost, and applications.

Understanding Single-mode and Multi-mode Optical Modules and Optical ...

Conclusion: In conclusion, single-mode and multi-mode optical modules and fibers serve distinct purposes in sfp optical module communication, offering compatibility with different transmission

Fiber Optics Part 2: Single-Mode Fiber vs. Multi-Mode

Written by Priya Maratukulam, Product Manager, Transceiver Modules Group, Cisco In our previous post we described the phenomenon of

2025 How to Identify Single-Mode vs. Multimode SFP Modules for

Single-Mode vs. Multimode SFP Modules SFP modules are transceivers used to connect network devices to various fiber optic or copper cables. The two primary types are Single-Mode

The Key Differences Between 1-core, 2-core, Single

For Shorter Distances or LANs: Multi-mode (MM) modules work best here—choose 1-core MM for basic short-distance networks, and 2-core MM if

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