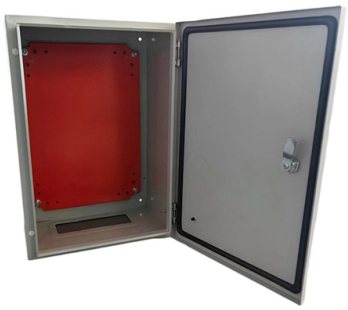
Direct Sales of 400G Active Optical Modules



Overview

How 400G Optical Modules Are Shaping Next-Gen NetworksDiscover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coher.

Key Takeaways

400G optical modules are high-speed transceivers in strong demand, with direct sales primarily available from leading manufacturers such as Dell, Cisco, Intel, Mellanox, and II-VI Incorporated. Overview of 400G Optical ModulesA 400G optical module is an advanced optical transceiver designed to transmit data at 400 Gigabits per second (Gbps) over fiber networks. These modules employ coherent optical technology and advanced modulation schemes to enable long-range, high-reliability communication with minimal signal degradation, making them essential for data centers, telecom networks, and enterprise high-speed applications.

They support the growing demand for cloud computing, 5G, AI, and IoT applications, and are increasingly replacing legacy 100G and 200G modules.

Market and Supply Trends

The global 400G optical module market reached USD 2. 87 billion in 2024 and is projected to grow at a CAGR of 21. 3%, potentially reaching USD 19.

18 billion by 2033. Europe alone is expected to grow from USD 567. 2 million in 2024 to over USD 1.



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28 billion by 2030, driven by telecom network upgrades and cloud data center expansion. Unit shipments of 400G modules have more than doubled year-over-year, with hyperscale operators leading adoption.

Key Manufacturers and Direct Sales

Leading suppliers offering direct sales or enterprise procurement of 400G modules include: Dell – Offers modules for data center interconnects and enterprise networking. Cisco – Provides QSFP-DD and CFP8 400G modules for high-performance networking. Intel – Supplies modules optimized for hyperscale and cloud deployments.

Mellanox Technologies – Focused on high-speed data center interconnects. II-VI Incorporated – Offers coherent and pluggable 400G modules for telecom and enterprise networks.

Inno

Light Technology Corporation, Acacia, Juniper Networks, Amphenol Corporation – Additional suppliers with direct sales channels for enterprise and telecom clients. Direct sales are typically handled through manufacturer websites, enterprise sales teams, or authorized distributors, often with volume-based pricing and technical support for integration into existing network infrastructure.

Considerations for Direct Purchase

When purchasing 400G optical modules directly, consider: Form Factor: QSFP-DD, OSFP, CFP8, depending on switch or router compatibility. Fiber Type: Single-mode for long-range, multi-mode for short-range applications. Application: Data center, telecom, or enterprise networks.

Compatibility: Ensure modules are compatible with existing network equipment and support required protocols. Lead Time and Supply: High demand may affect availability; pre-ordering from manufacturers or authorized distributors is recommended.

Conclusion

Direct sales of 400G optical modules are available from major global manufacturers, with strong market growth driven by hyperscale data centers, 5G networks, and cloud services. Enterprises and telecom operators can procure these modules through manufacturer sales teams or authorized distributors, ensuring compatibility, technical support, and timely delivery to meet high-bandwidth network requirements.

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Article Content

How 400G Optical Modules Are Shaping Next-Gen Networks

Discover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coherent optics, and market trends shaping next-gen network infrastructure.

Global 400G Optical Module Sales Market Report, Competitive

This report delves into the latest U.S. tariff measures and the corresponding policy responses across the globe, evaluating their impacts on 400G Optical Module market competitiveness, regional economic

400G Optical Module

This report aims to provide a comprehensive presentation of the global market for 400G Optical Module, focusing on the total sales volume, sales revenue, price, key companies market

Global 400G Optical Module Supply, Demand and Key Producers,

As networks continue to evolve to support emerging technologies such as 5G connectivity, IoT, and artificial intelligence, the demand for 400G Optical Modules is expected to

400G Digital Optical Modules Market (2024-2034)

The transition from 100G to 400G optical modules is seen as a critical step in meeting the demands of modern data traffic. For instance, major telecom operators like AT&T and Verizon have

400G Optical Module Market Research Report 2033

According to our latest research, the global 400G Optical Module market size reached USD 2.87 billion in 2024. The market is expected to grow at a robust CAGR of 21.3% from 2025 to 2033, reaching a

Optical Components

Detailed unit shipment forecasts for each Datacom and Telecom optical module category. No market share for detailed unit shipments is provided; unit shipment data from

Global 400G Optical Module Market 2024 by Manufacturers, Regions,

Chapter 4, the 400G Optical Module breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

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Global 400G Optical Module Market Research Report 2025 (Status

This report offers a comprehensive and in-depth analysis of the global 400G Optical Module market, covering all critical facets from a broad macroeconomic overview to detailed micro

Over 20 Million 400G & 800G Datacom Optical Module Shipments

BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over $9 billion for 2024, according to the latest Optical Components Report from research firm

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry''s highest bandwidth density while leveraging the backward compatibility to lower

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GIGALIGHT Innovatively Launches Linear 400G DR4 CPO Silicon Optical ...

The company''s product portfolio includes optical modules, silicon photonics modules, liquid-cooled modules, passive optical components, active optical cables, direct attach copper

400G Digital Optical Modules Market (2024-2034)

The 400G Digital Optical Modules Market was valued at USD 1.2 billion in 2024 and is projected to reach USD 3.5 billion by 2034, registering a CAGR of 11.5%. This growth trajectory is

QSFP56-DD 400G Active Optical Cable for Intel

QSFP56-DD 400G AOC for Intel Equipment Direct 400G equipment connections Complete Connect''s QSFP56-DD 400G Active Optical Cables (AOC) cable assemblies offer customers a high

Global 400G Optical Transceiver Market Size, Growth Trends

400G Optical Transceiver Market Overview 2026-2033 The 400G optical transceiver market represents a critical segment within the broader high-speed optical communication

A Deep Dive into NADDOD 400G Ethernet Active Optical Cable (AOC)

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In modern data center networks, as port speeds continue to evolve toward 400G, 400G Ethernet AOC (Active Optical Cable) has gradually become an important solution for short- to mid

AI Data Center Upgrades 2025: Best 400G & 800G

Plan AI data center upgrades for 2025. Expert guide to selecting the best 400G and 800G optical transceivers, cables, and network solutions for AI

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

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