Direct Sales 400G Optical Module



Overview

Global 400G Optical Module Supply, Demand and Key Producers, A 400G Optical Module refers to an advanced optical transmission module used in data centers.

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.

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.

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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

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

A 400G Optical Module refers to an advanced optical transmission module used in data centers, telecommunications networks, and high-speed communication systems.

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 Market Size, Share & Industry Forecast

The 400G optical module market represents a critical segment within the broader high-speed optical communications ecosystem, primarily driven by the relentless demand for higher

400G Digital Optical Modules: Market Evolution & Growth Forecast to

The sustained demand for faster, more reliable, and energy-efficient data transmission solutions ensures a positive forward-looking outlook for the 400G Digital Optical Modules Market,

400G Optical Module: Growth Opportunities and Competitive

Asia-Pacific is estimated to lead the 400G optical module market, holding approximately 45% market share. This dominance is driven by extensive data center expansion, rapid 5G network

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

A 400G Optical Module refers to an advanced optical transmission module used in data centers, telecommunications networks, and high-speed communication systems. It is designed to transmit

Global 400G Optical Module Market Growth 2026-2032

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With 400G Optical Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 400G Optical Module industry.

Global 400G Optical Module Market Insights

The 400G Optical Module market size, estimations, and forecasts are provided in terms of sales quantity (K Units) and revenue ($ millions), considering 2025 as the base year, with history and

400G DR4 Silicon Photonics Optical Transceiver

For the company''s silicon photonics optical chip customers can open 400G module technology solutions, and provide optical engine OEM services.

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

The global 400G Optical Module market size is expected to reach $ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

Panduit Cable Ordering Guide For Cisco 400G Optics

The Cisco QDD-400G-FR4-S module supports link lengths of up to 2km SMF with duplex LC connector. It is compliant to IEEE 802.3bs, 400GBASE-FR4 Spec of 100G Lambda MSA group, and 400GAUI

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400G Optical Module Market Report – Research, Industry Analysis

Chapter 2, to profile the top manufacturers of 400G Optical Module, with price, sales quantity, revenue, and global market share of 400G Optical Module from 2021 to 2026. Chapter 3,

400G Optical Module Market Research Report 2033

As per our latest market intelligence, the Global 400G Optical Module market size was valued at $2.3 billion in 2024, and is forecasted to hit $13.8 billion by 2033, growing at a robust

400G Optical Module Market Report | Global Forecast From 2025 To

The global 400G Optical Module market size was valued at approximately USD 1.5 billion in 2023 and is projected to reach around USD 11.2 billion by 2032, with a compound annual growth rate (CAGR) of

Global 400G Optical Module Market Size, Share & Industry Forecast

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400G Optical Module Market Overview 2026-2033 The 400G optical module market represents a critical segment within the broader high-speed optical communications ecosystem,

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