Which manufacturer makes the 400G optical module

Article Overview

Leading manufacturers of 400G optical modules include InnoLight, Coherent, Eoptolink, Cisco (Acacia), Accelink, Kocent Optec, and Broadcom.

Key Global Manufacturers

o InnoLight Technology (China): A top supplier for hyperscale AI and cloud data centers, specializing in 400G and 800G OSFP/QSFP-DD modules with high-speed PAM4 designs for dense deployments .
o Coherent (USA): Formerly Finisar, Coherent produces a wide range of optical transceivers, including 400G ZR/ZR+ coherent modules, leveraging silicon photonics and integrated optics for telecom and datacom applications .
o Eoptolink Technology (China): Known for agile manufacturing and low-power PAM4 400G transceivers, serving cloud networks and fast deployment scenarios .
o Cisco (Acacia Communications, USA): Focuses on coherent optics for long-haul data center interconnects, offering high-performance 400G modules for enterprise and telecom networks .
o Accelink Technology (China): Provides optical transceivers and components for telecom backbones, 5G fronthaul, and high-speed data center applications .
o Kocent Optec (China): OEM manufacturer offering cost-efficient 400G modules with multi-vendor compatibility (Cisco, Arista, Juniper), emphasizing reliability, thermal management, and rapid R&D iteration .
o Broadcom (USA): Supplies 400G/lane optical DSPs and EML/PD modules, enabling next-generation 1.6T and 3.2T transceivers, optimized for AI infrastructure and high-density data centers .

Considerations for Selection

o Form Factor: QSFP-DD and OSFP are common for 400G modules, while coherent ZR/ZR+ modules are used for metro and long-haul networks .
o Modulation Technology: PAM4 is widely adopted for 400G to double bit rate per lane, while coherent optics support longer distances .
o Compatibility: Many OEMs ensure multi-vendor interoperability, which is critical for large-scale deployments .
o Power and Thermal Efficiency: Leading manufacturers focus on low power consumption and effective thermal management to support dense data center environments . These manufacturers collectively cover hyperscale cloud, telecom, and enterprise networks, providing both standard and custom 400G optical modules to meet evolving bandwidth demands and next-generation network requirements.

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In the past two years, the demand for 400G optical modules in high-performance data centers, intelligent computing centers, super

Optical transceiver market leaders: the top 10 manufacturers powering 400G and 800G modules for hyperscale data

As data centers evolve to support AI, HPC, and hyperscale workloads, 400G optical transceivers have become critical

Product overview Cisco is now expanding the range of 400G Digital Coherent QSFP-DD transceivers, introducing High Tx Power

400G Coherent Optics is a complex system that integrates key photonic and electronic components to enable high

The Cisco"s QDD-400G-VR4 Module (Figure 5) is a hot pluggable optical transceiver compliant with 400G Ethernet.

Discover the OSFP 400G DR4 Optical Transceiver Module, a high-performance solution

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module"s small size and low power make it an optimal

As part of a broader upgrade of its interconnect portfolio, Molex has introduced new 100G and 400G optical

What 400G Transceivers and Cables are available from Arista? Arista supports a full range of 400G optical transceivers, Active

The Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense

A clear, engineer-friendly overview of 400G optical modules, including standards, packaging formats, functions, and

Juniper"s broad portfolio of 400G coherent and direct-detect optical transceivers are designed to address the growing demand for

400 Gigabit Ethernet (400G) transceivers are optical modules capable of handling data rates of 400 Gbps. With a transmission rate

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400G CFP2 is a pluggable optical module and provides optimal performance, incorporating multiple innovative technologies to

Optical Module Evolution: From 400G to 3.2T Driven by the explosive growth of artificial intelligence (AI), cloud

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