

Manufacturer s 400G Optical Transceiver Module



AI Overview

400G optical modules are high-speed transceivers designed for data center, metro, and AI infrastructure, available in coherent and direct-detect types from leading manufacturers like Broadcom, Cisco, Juniper, Lumentum, and Huawei. Overview of 400G Optical Modules 400G optical modules are pluggable transceivers that enable ultra-high-speed data transmission over fiber networks. They are essential for data centers, cloud infrastructure, metro, and long-haul networks, supporting Ethernet, OTN, and DWDM applications. These modules come in coherent and direct-detect types, with form factors such as QSFP-DD, CFP2-DCO, and QSFP56-DD, providing flexibility for different network architectures and distances. Key Manufacturers and Technologies

Broadcom: Offers 400G/lane optical DSPs and electro-absorption modulated lasers (EML) optimized for 1.6T and 3.2T transceivers. Their Taurus BCM83640 DSP enables 400G/lane serial optical interfaces, supporting next-generation 204.8T switches and AI infrastructure.

Cisco: Provides 400G QSFP-DD High-Power (Bright) modules and Digital Coherent QSFP-DD transceivers. These modules support Ethernet and OTN clients, high Tx power, and advanced DSP framing for coherent DP-mQAM signals, suitable for DCI, metro, and campus networks.

Juniper: Offers a broad portfolio of 400G coherent and direct-detect transceivers compatible with ACX, MX, PTX, and QFX product families. Juniper modules are standards-compliant and tested for power, thermal, and interoperability in multivendor environments.

Lumentum: Designs 400G and 800G optical transceivers with a focus on coherent optics and integrated laser technology, supporting high-capacity data center and cloud networks.

Huawei, Sumitomo Electric, Source Photonics, Smiths Interconnect: Provide 400G optical modules for backbone, metro, and industrial app...

Article Content

Global Leader in Materials, Networking, and Lasers

Communications Transform global communications networks with our comprehensive portfolio of coherent transceivers and modules, lasers, amplifiers,

Global Optical Transceiver company

We deliver high-performance 100G, 400G and 800G optical transceivers optimized for data centers, metro transport and long-haul links. Our modules meet the

Wholesale Optical Transceivers Module | 100G

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

400G Optical Transceivers | OEM Compatibility

Our 400G optical transceivers are 100% compatible with leading OEM brands such as Cisco, Juniper, Arista, Huawei, Nokia, Dell, and more. This

The Ultimate Reference Table for SFP & QSFP Optical Transceiver ...

Executive Summary: Navigating the 2025 Optical Landscape In 2025, the optical transceiver market has shifted decisively. While 100G remains the workhorse for enterprise edges,

Palestine Generic QSPDD-FR4-400G Compatible LINK-PP

Product Description Generic QSPDD-FR4-400G Compatible LINK-PP LQD-CW400-FR4C 400GBASE-FR4 QSFP-DD 1310nm 2km DOM Duplex LC SMF Optical Transceiver

400G OSFP/QSFP112/QSFP-DD | Transceiver Modules

FS provides an expanding portfolio of 400G OSFP/QSFP112/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward compatibility. The 400G transceiver modules are ideal

Reliable 100G/400G Transceivers for Data Center Uptime

A single faulty optical transceiver can crash a \$50,000 core switch. Are you really willing to risk your network uptime on unverified optics? ☐☐ The difference between a reliable 100G/400G ...

The Evolution of Optical Modules: 400G → 800G → 1.6T – A Strategic ...

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and upgrade strategies for future-ready data centers.

AI Data Centers Drive Optical Transceiver Market Growth

Analysis of how AI and hyperscale data centers accelerate global optical transceiver adoption, including 400G/800G evolution, silicon photonics, CPO, and Link-PP integration for next

100G/400G Optical Transceiver

EXECUTIVE SUMMARYThis document serves as the definitive technical reference and product datasheet for the next-generation 100G/400G Optical Transceiver family. Designed ...

Optical Transceiver Market: Top 10 Manufacturers Ranked

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

Intel® Silicon Photonics

Next-generation process technology for disruptive cost structure, size, and integration. Maturity – Our field-proven Intel® Silicon Photonics platform has already shipped more than 8 million PICs with over

Broadcom's 400G/lane Optical Solutions Pave the Path Toward 200T ...

Building upon its first-to-market 400G electro-absorption modulated laser (EML) and photodiode (PD) debuted at OFC 2025, Broadcom is launching the Taurus BCM83640, the industry's

High Quality 400g Optical Transceiver Manufacturer and Supplier ...

Buy high-quality 400g Optical Transceiver directly from China Manufacturer, Supplier, Factory. Get reliable and affordable transceivers for your networking needs.

Understanding the OSFP Standard: The Open 400G/800G Optical Transceiver ...

OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight electrical lanes (Tx/Rx) per module. Each lane can operate up to 100G

Small Form-factor Pluggable

Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module

400G Transceivers-PRODUCT SOLUTIONS-INNOLIGHT

A comprehensive portfolio of 400G QSFP-DD optical transceivers is available at InnoLight Technology. The series of products comply with IEEE 802.3bs and QSFP-DD MSA standards and are mainly

Yole Group

Yole Group - Access daily business, market & technology updates in the semiconductor industry, our Analysts' Analysis and Presentations and more

AOC, DAC, Fiber Optic Transceivers | One-Stop Shop

10Gtek's automatic assembly line, assures the consistency of manufacture under the process of laser cutting, aluminum shielding stripping, isolator stripping,

Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal choice for a wide range of

The silicon photonics supply chain diagram is one of the most

2. MACOM Technology (MTSI): MACOM is quietly positioning itself at the inflection point of the 1.6T and 3.2T optical transceiver transition. In March 2026 it launched 448G PAM4 modulator

How to Source 800G/1.6T Optical Transceivers for AI Infrastructure

Learn how to select, compare, and source verified 400G-1.6T optical transceivers—OSFP/QSFP-DD modules, silicon photonics tech, LTAs, and top manufacturers for AI data centers.

What factors influence 400G optical transceiver

Discover the key factors that drive 400G optical transceiver pricing—from form-factor and component costs to market dynamics and sustainability.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.sky-connect.co.za>

Email: info@sky-connect.co.za

Phone: +44 20 7946 0958

Address: 1 Cornhill, London EC3V 3ND, United Kingdom

This document is for informational purposes only. Specifications subject to change without notice.

