

Manufacturer s 400G Pluggable Optical Module



Article 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

Article Content

Pluggable Optical Modules – GIGALIGHT

GIGALIGHT provides 100G, 200G, 400G and 800G pluggable digital coherent optical transceiver modules (DCO) and non-coherent

China 400G Optical Module Manufacturers, Suppliers, Factory ...

HTF is one of the most professional 400g optical module manufacturers and suppliers in China, providing high quality products for

400G ZR/ZR+ pluggable coherent modules

400G modules and applications 400G ZR is a standardized, interoperable 400G coherent interface specification available in the

OSFP Product Family » Acacia

Octal Small Form-factor Pluggable (OSFP) solution that fits into high-density switch and router client ports for optical interconnect links

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

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

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

Understanding Pluggable Optical Modules

QSFP-DD (Quad Small Form-Factor Pluggable-Double Density) optical module: It is a double-density four-channel small pluggable

DCI Optical Modules | Delivering high bandwidth over distance

Explore DCI Modules Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks.

Contact Us

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