

US 400g Optical Module



Overview

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 DCI/Cloud, metro access/aggregation, wireless backhaul, and campus interconnect applications. 400G Optical Module by Application (Data Communication, Telecom, Other), by Types (Less Than 1 km, 1 km, 2 km, 10 km, Others), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy, Spain. The 400G DR4 optical module is a high-speed optical transceiver module compliant with the IEEE 802.3bs standard, designed specifically for medium-to-short distance transmission in 400G Ethernet. It adopts the QSFP-DD form factor, operates in the 1310nm wavelength band, and uses MPO-12 single-mode. Cisco is now expanding the range of 400G Digital Coherent QSFP-DD transceivers, introducing High Tx Power variants (+1dBm of Tx Power). Thanks to the miniaturization of the technology with a 7-nm manufacturing procedure and innovation in silicon photonic technology, it is now possible to also. From cloud data centers to metro and long-haul networks, 400G—particularly coherent variants like ZR and ZR+—is helping eliminate bandwidth bottlenecks and support the growing demands of AI, big data, and next-generation digital services. With a transmission rate of up to 400 Gbps, 400G transceivers offer double the capacity of their predecessor (200G transceivers). 400G. The global 400G Optical Module market size is predicted to grow from US\$ 1105 million in 2025 to US\$ 2057 million in 2032; it is expected to grow at a CAGR of 8.



Article Content

Sep 04, 2025

Over 20 Million 400G & 800G Datacom Optical Module

Unit shipments of 400G and 800G modules have grown nearly fourfold over the past 12 months and are expected to surpass 20 million for 2024. "Optical

Oct 04, 2025

QSFP-DD-400G-SR4 Optical Transceiver 1. Summary

Discover the details of QSFP-DD-400G-SR4 Optical Transceiver 1. Summary at LonRise Equipment Co. Ltd., a leading supplier in China for Optical Transceiver Module and SFP Optical

Jun 08, 2026

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center interconnect applications - FiberMall

Nov 25, 2025

400G Optical Module Market Size, Industry SWOT & Forecast

The sector focused on the creation, manufacturing, and distribution of optical modules intended to serve 400G Ethernet networks is known as the 400G Optical Module Market.

Apr 12, 2026

USI | Optical Transceiver

The 400G DR4 optical module is a high-speed optical transceiver module compliant with the IEEE 802.3bs standard, designed specifically for medium-to-short distance transmission in 400G Ethernet.

Jan 12, 2026

How 400G Optical Modules Are Shaping Next-Gen

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

Aug 13, 2025

Optical Module Chip Market 2025

Optical Module Chip Market size was valued at US\$ 823 million in 2024 and is projected to reach US\$ 1.52 billion by 2032, at a CAGR of 8.0%

Aug 08, 2025

Global 400G Silicon Optical Module Market 2024 by Manufacturers ...

Global 400G Silicon Optical Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030 According to our (Global Info Research) latest study, the global 400G Silicon

Mar 19, 2026

Silicon photonics and co-packaged optics at the heart of

While linear-drive pluggable modules remain competitive, CPO is expected to offer unmatched customization and scalability, with large-scale

Nov 30, 2025

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics

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

Nov 04, 2025

Optical Transceivers

Supporting the OpenZR+ Multi-Source Agreement (MSA), the new 400G OpenZR+ QSFP-DD Optical Module from Molex provides a high level of performance and

Jun 10, 2026

400G vs 800G Optical Module: Which is Right for Your Network?

A deep technical comparison of 400G vs 800G optical module technology. Understand the key differences, benefits, and applications to optimize your next-generation data center network.

Feb 06, 2026

400G QSFP-DD Transceiver Modules

Cisco QDD-400G-FR4-S Compatible 400GBASE-FR4 QSFP-DD PAM4 DDM 2km 1310nm Duplex LC/UPC SMF Optical Transceiver Module Arista Cisco Dell +1 400G / Cisco / 2km / Duplex LC/UPC /

May 24, 2026

800G Client Optics in the Data Center

THE GROWTH OF 400G The speed with which hyperscale data center operators have moved to the high volume deployment of 400G demonstrates the huge transition that has occurred in the market

Jul 25, 2025

Transceiver USA 400G QSFP-DD LR4 Duplex LC Optical Network Module

Transceiver USA's TUSA4QDDL4 optical modules are used in datacenter and enterprise networks. They are cross compatible with Arista, Cisco, Dell, Intel, Juniper, Nvidia networks.

Apr 01, 2026

A Comprehensive Guide to 400G OSFP Ethernet

Comprehensive Product Portfolio In addition to 400G OSFP Ethernet transceivers, NADDOD offers a full range of 1.6T, 800G, 400G, 200G, and 100G

Dec 13, 2025

Market Insights: 800G & 1.6T Silicon Photonics Optical

We offer a comprehensive range of products, including optical modules, DAC, AOC cables, 1.6T InfiniBand XDR silicon photonics transceivers

Jan 22, 2026

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.

Jan 26, 2026

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

Jul 19, 2025

United States 400G Optical Module Market Size 2026

The evolution of industry innovations is pivotal in defining the competitive landscape and growth prospects of the North American 400G optical module market.

Apr 15, 2026

Universal Optical Modules

We offer optical modules supporting speeds from 1G to 400G, ideal for expanding network infrastructure in data centres and telecom operators. Find out how easy it

Aug 31, 2025

Know Your 400G Transceiver | Juniper Networks

400 Gigabit Ethernet (400G) transceivers are optical modules capable of handling data rates of 400 Gbps. With a transmission rate of up to 400 Gbps, 400G transceivers offer double the capacity of

Aug 12, 2025

Global 400G Optical Module Market Growth 2026-2032

The global 400G Optical Module market size is predicted to grow from US\$ 1105 million in 2025 to US\$ 2057 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032. The

Dec 15, 2025

400G Optical Module: Growth Opportunities and Competitive

The 400G Optical Module market is projected to reach \$14.8B by 2025, growing at 11.5% CAGR. Demand from data centers and telecom drives this expansion. Access market growth analysis.

Dec 29, 2025

PSE 100G/400G pluggable coherent optics

How pluggable coherent optics bring performance and low power to industry standard transceiver module formats

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