

DCFP optical module



Overview

It is a digital coherent optical transceiver module designed for 100G Ethernet and OTN OTU4 links reach up to 120km-1200km over SMF, with CAUI and OTL4. 10 electrical interface and MDIO management interface built in the module. It plays a fundamental role in converting electrical signals from networking equipment into optical signals—and vice. Cisco offers a comprehensive range of pluggable optical modules in the Cisco ONS pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces. Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable. The CFP2-DCO-400G-D is a CFP2 form factor coherent pluggable module, compliant with the CFP MSA CFP2 Hardware Specification. It supports a range of baud rates and modulations including QPSK, 8QAM, and 16QAM, which enables operation at 100G, 200G, 300G and 400G over a single wavelength, across. Support for Ethernet/OTN clients, and line-side transmission of 100Gbps QPSK modulation up to 400Gbps 16QAM Supports an expansive list of interoperability modes including OpenROADM MSA, CableLabs, and the Optical Internetworking Forum (OIF) Supports DCI, access aggregation, wireless 5G backhaul. This document details an Implementation Agreement (IA) for a CFP2-DCO Module and defines the CFP2-DCO form factor of an optical transceiver which can support 100Gbit/s, 200Gbit/s, 300Gbit/s and/or 400Gbit/s line interface rates for Ethernet, ITU-T OTN, OIF and other applications. This specification. Nokia's 400G multi-haul coherent modules (CFP2-DCO) provide the capacity and optical reach of coherent optics in a flexible, small-sized CFP2-DCO module.

Article Content

Optical Modules Market Size, Trends & Forecast 2025-2035 | Core

Discover Optical Modules Market trends, growth analysis, key segments, and regional insights. Forecast 2025-2035. Explore industry opportunities now!

Global Leader in Materials, Networking, and Lasers

Learn how Coherent empowers innovations and breakthrough technologies for the industrial, communications, electronics, and instrumentation markets.

Optics Transceiver Module Market 2025

The optics transceiver module market is experiencing robust growth driven by the exponential rise in data center investments globally. Hyperscale data center operators are deploying 400G and 800G

Cisco Digital CFP2-DCO Coherent Optical Module Data Sheet

Introduction Cisco offers a comprehensive range of pluggable optical modules in the Cisco ONS pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034,

What is 800G CFP2-DCO Coherent Optical Module? | GLSUNMALL

As a critical component of next-generation optical communication systems, the 800G CFP2-DCO (Digital Coherent Optics) coherent optical module stands out due to its high

Connection Schemes for Optical Module and Fiber Patch Cord

Optical modules come in various transmission rates and distances. Therefore, when selecting fiber patch cords for optical modules, it's essential to choose the type that matches the

What does an optical module do?

An optical module, often referred to as a transceiver, is a critical component in modern networking and telecommunications systems. Its primary function is to facilitate the transmission and reception of

Telecom Optical Module Market Research Report 2033

The Telecom Optical Module market was valued at \$24.8 billion in 2025 and is projected to reach \$47.3 billion by 2033, growing at 8.4% CAGR.

Optical Transceiver vs. Fiber Optic Module: What's the Difference ...

IntroductionEngineers, purchasing managers and installers often see the terms გადამცემი, optical module and fiber optic module used interchangeably — and that causes confusion. This article

Optical Transceiver vs. Fiber Optic Module: What's the Difference ...

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CFP2-DCO Pluggable Coherent Optical Modules | Acacia

Designed to transmit and receive data in both directions on a single fiber for 100G and beyond. Provides an operationally efficient and cost-effective way for

400G DWDM Tunable CFP2 DCO 80km DOM Duplex LC/UPC SMF

The 400G DCI solution uses the D7000 series for point-to-point networking, supporting up to 3.2T capacity and a full set of 400Gbps coherent optics for low-power, low-latency interconnects.

direcXource Generic Compatible CFP-100G-ER4 100GBASE-ER4

direcXource's CFP-100G-ER4 optical transceiver is a parallel 112Gbps C Form-factor Pluggable CFP module for use in 100GBASE Ethernet. CFP ER4 provides 100Gb/s throughput up to 40km over

Implementation Agreement for CFP2-Digital Coherent Optics Module

This document details an Implementation Agreement (IA) for a CFP2-DCO Module and defines the CFP2-DCO form factor of an optical transceiver which can support 100Gbit/s, 200Gbit/s,

Cisco Digital CFP2-DCO Coherent Optical Module Data

These small, modular optical interface transceivers offer a convenient and cost-effective solution for an array of applications in the data center,

SFP Transceiver,100G QSFP28,100G CFP,10G

5G Backhaul Module For Brocade For Finisar Network Card FC Port Blade GPU
SAMSUNG Memory HDD Topstar -- Your Excellent One-stop Optical Network

Nokia 400G multi-haul coherent module

The latest generation of Nokia 1830 Photonic Service Switch (PSS) transponders and OTN switch interfaces incorporate the new 400G multi-haul CFP2-DCO module, enabling cost-effective, efficient

CFP Optical Module: Complete Guide, Types, and 100G Use Cases

What is a CFP optical module? Is it still relevant in 2026? And when should you choose it over newer alternatives? This guide is designed to answer those questions with clarity and technical

Optical Transceivers | Fiber Optic Transceivers | Form

Using fiber optic technology, it converts electrical signals from switches or routers into optical signals, transmitted as pulses of light, enabling

Optical Module Package Market 2025

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR of 12.7%

Optical Module Market Size, Competitors & Forecast to

The Optical Module Market, valued at USD 30.01B in 2026, is projected to reach USD 66.94B by 2032, growing at a 14.1% CAGR.

CFP DCO Optical Transceiver Modules | AscentOptics

AscentOptics' CFP DCO supports 100/200Gbps transmission speeds in an industry-standard, pluggable CFP form factor with 16nm DSP and can be widely used in metro carrier, access and Cloud/DCI

Understanding CFP2-DCO: The Future of Coherent

The CFP2-DCO transceiver module is an optical device that is small in size but can transmit data in a scalable and efficient manner. This device

CFP vs CFP2 vs CFP4 vs CFP8 Optical Transceivers:

Explore the differences between CFP, CFP2, CFP4, and CFP8 optical transceivers, including size, power usage, bandwidth, and DSP integration.

Contact Us

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