CFP Coherent Optical Module



Overview

The CFP2-DCO is a digital coherent optical module based on the CFP2 (C Form-Factor Pluggable 2) form factor. Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable. C-band tunable, Multi-rate, SD-FEC, 0°C to 70°C, LC receptacle. On the host side, the module can accommodate a variety of signal types including 100GE, 200GE, 400GE, OTU4 and OTUCn (FlexO). On the line side the module supports 100G, 200G, 300G, and 400G interfaces with different modulation formats. The 100G/200G Coherent CFP2 DCO MSA is Pluggable Digital Coherent C form-factor optical transceiver designed for high-speed optical networking applications such as: Telecom Metro/Long-haul, Wireless Backhaul and Hyperscale Data Center Interconnect (DCI). Letter C in the CFP2 naming is an acronym. 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. The C form-factor pluggable (CFP, 100G form factor pluggable, where C is Latin: centum "hundred") is a multi-source agreement to produce a common form-factor for the transmission of high-speed digital signals.

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Article Content

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,

200G/100G CFP2 Digital Coherent Optics Transceiver

The transceiver module is compliant to the CFP MSA CFP2 Hardware Specification, with extensions specified in the OIF CFP2-DCO implementation agreement. The optical transceiver is RoHS

200G Coherent CFP2 DCO

Extend optical reach to 2000km with integrated coherent DSP. CFP2-DCO merges packet and optical layers in a single pluggable module.

C form-factor pluggable

The Optical Internetworking Forum in 2016 published the CFP2-ACO or CFP2 - Analog Coherent Optics Module Interoperability Agreement (IA). This IA supports a configuration where the digital signal

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

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

CFP Optical Modules Market

Optical module innovation is propelled by advancements in coherent detection, silicon photonics, and integrated DSP technologies, enabling high-capacity and power-efficient transmission.

Optics Transceiver Module Market 2025

Optics Transceiver Module Market size was valued at US$ 12.67 billion in 2024 and is projected to reach US$ 28.94 billion by 2032, at a CAGR of 10.84%

Acacia is the Coherent Market Share Leader

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High-speed coherent optical interconnect products that transform communications networks, relied upon by network equipment providers, hyperscalers, service

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%

Complete Guide to Pluggable Optical Transceivers –

Complete Guide to Pluggable Optical Transceivers Fundamentals & Core Concepts What are Pluggable Optical Transceivers? Pluggable optical

Optical Transceiver Market Size, Share, and Trends Analysis 2032

The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

Single Mode Optical Modules Market 2026

Emergence of Coherent Optics for Long-Haul The market is seeing growing interest in coherent Single Mode Optical Modules for metro and long-haul applications, offering improved transmission

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 Optical Transceiver Market Size, Trends, 2026-2033 ...

The CFP Optical Transceiver Market research report offers a comprehensive, data-driven analysis of the evolving landscape of high-speed optical transceivers designed for data center,

Lasers | Coherent

Industry leading Coherent Lasers bring technical innovation and deliver better results and value in, medicine, OEM instrumentation, and

Coherent to Unveil Breakthrough AI-Scale Optical Innovations and ...

Coherent will unveil AI-scale optical innovations at OFC 2026, showcasing technologies that advance bandwidth, scalability, and energy efficiency.

800GbE optics shipments to grow 60% in 2025 – report

The datacom optical component market will grow 60%+ to reach over US$16 billion in revenue during 2025, based primarily on continued growth in

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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