Coherent Optical Module 100G



Overview

Built around Coherent Steelerton DSP, the 100G ZR QSFP28-DCO transceiver is fully compliant to the IEEE 802. 3™-2022 100GBASE-ZR standard, ensuring interoperability with other solutions. The Steelerton DSP is the first purpose-built DSP for 100G ZR applications, optimized for the lowest power. Cisco ® QSFP28 100G ZR extends 100GbE coherent links from QSFP28 ports reaching up to 80km over dark fiber and up to 300km over amplified Dense Wave Division Multiplexing (DWDM) links., delivering end-to-end open disaggregated networking and wireless solutions to customers across North and South America, EMEA and Asia since 1999. With one of the industry's most comprehensive. Digital Coherent Optics module, hot- pluggable QSFP28 form factor Transmission reach: Up to 80km unamplified (loss limited) Up to 120km amplified (dispersion limited, optionally extendable to 300km) Full C-band tunable, 50GHz or 100GHz grid Case temperature range 0°C to 70°C Power dissipation

© 2026 PROMETHEAS OPTICAL - All rights reserved

Article Content

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

The QSFP28 100G ZR can cost effectively extend 100G links to 80km on any fiber type, and is a cost-effective migration option of multiple 10G wavelengths to 100G.

100G Coherent Transceivers

Coherent''s 100G QSFP28 transceivers deliver versatile connectivity solutions across multiple reach requirements, from data center interconnects to metro networks.

100G Coherent QSFP28 C-band Tunable 80km DCO Transceiver

The 100G ZR QSFP28 DCO transceiver supports 100G transmission over distances up to 120km (dispersion limited, optionally extendable to 300km) for edge network applications. On the host side,

PSE 100G/400G pluggable coherent optics

Our pluggable coherent optical modules support a variety of data rates, including 100Gb/s and 400Gb/s to enable application optimization based on capacity,

Optical Engines Data Sheet Coherent 100ZR

ut having to tear out existing equipment. With a low-cost and low-power QSFP28 design, our Coherent 100ZR pluggable transceiver slots directly into existing head-end devices, facilitating the adoption of

Coherent Launches High-Power 100G ZR Module,

Launched the 100G ZR QSFP28-DCO with 0 dBm optical output power, improving signal reach and link budget performance. Showcased 400G,

Coherent Optics Explained: How 100G+ Transmission Works | CZT

Learn how coherent optical transmission works: coherent vs direct-detect optics, modulation formats (DP-QPSK, QAM), and when to use coherent transceivers in practice. Moving

Ciena DTM-100G2 Coherent 100G Transponder Module Data Sheet

The DTM-100G2 is a single-slot 100G coherent transponder module for Ciena''s Z-Series Packet-Optical Platform. The DTM-100G2 supports pluggable CFP optics on both the line side and client side for

TS-QD-CO4H-ZRPC: Scale Metro and DCI Networks with 400G Open

© 2026 PROMETHEAS OPTICAL - All rights reserved

Discover the details of TS-QD-CO4H-ZRPC: Scale Metro and DCI Networks with 400G Open ZR+ Coherent Pluggables at LonRise Equipment Co. Ltd., a leading supplier in China for

Optical networks

Nokia optical network solutions for transport networks with advanced coherent optical engines, scalable open optical line systems, and AI-powered automation.

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that

EML vs VCSEL vs CW Laser: Optical Transceiver

Compare EML, VCSEL, and CW laser technologies in optical transceivers. Covers cost, reach, speed, the 2025 EML shortage, and silicon

Optical Transceiver Market Size, Growth Drivers

The Optical Transceiver Market worth USD 15.42 billion in 2026 is growing at a CAGR of 13.67% to reach USD 29.26 billion by 2031. Coherent

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.

Acacia is the Coherent Market Share Leader

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

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

AI Drives Doubling of 800G Optical Transceiver Shipments in 2025

In this context, shipments of 800G ZR/ZR+ modules are forecast to exceed 200,000 ports by 2026, with 1.6T ZR/ZR+ modules expected to emerge between 2027 and 2028. The coherent optics market is

400G/200G/100G CFP2-DCO Coherent Optical Module

Application The 100G/ 200G / 400G CFP2-DCO coherent optical module is used on the host system for MAN DWDM applications.

© 2026 PROMETHEAS OPTICAL - All rights reserved

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://prometheas.fr
Technical inquiry: https://prometheas.fr/project-desk.html
North American project region: Ashburn, Loudoun County, Virginia, United States

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

© 2026 PROMETHEAS OPTICAL - All rights reserved