Optical module Q112 package



Overview

The QSFP112 is a four-channel pluggable optical module package based on 112G PAM4 electrical signals, using existing QSFP modules and cage/connector systems. Compared to the QSFP56, the QSFP112 achieves twice the bandwidth density with the same number of channels. It supports data rates of up to 425 Gbps (4x106. Optical modules are classified by their packaging forms, with common types including SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD, QSFP112, and. High reliability: The operating temperature of the module is reduced by more than 10°C, and the failure rate is 78% lower than that of traditional optical modules. 4-channel MPO-12/APC optical connector. Each of the four channels in the. The Cisco ® 400G QSFP-400G-DR4 modules offer customers high-bandwidth transceiver modules targeting network interface cards (NICs) and smart NICs used in data centers, high-performance computing networks, and AI applications.

Article Content

Q112-400G-DR4 | 400G Q112 Transceiver | AIAICPLIGHT

With a maximum power consumption of ≤10W and a compact QSFP112 form factor, the 400G-Q112-DR4 is a cost-effective and energy-efficient solution for high-speed networking needs.

Huawei QSFP112-400G-VR4 Optical Module Datasheet

The transmitting end of an optical module converts electrical signals into optical signals, while the receiving end converts optical signals back into electrical signals. Optical modules are classified by

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400G DR4 LPO Single-Mode Optical Module in QSFP112 Package

High reliability: The operating temperature of the module is reduced by more than 10°C, and the failure rate is 78% lower than that of traditional optical modules.

400G QSFP112 DR4 500m Optical Transceiver

Description Q112-400G-DR4 is a 400Gb/s, Single-port, QSFP112, DR4 single mode parallel transceiver using a single, 4-channel MPO-12/APC optical connector. The Data Center Reach 4-channel (DR4)

What is the 400G QSFP112 Optical Transceiver

The QSFP112 is a four-channel pluggable optical module package based on 112G PAM4 electrical signals, using existing QSFP modules and cage/connector systems. Compared to the

Cisco 400G QSFP-400G-DR4 Transceiver Modules Data Sheet

High-bandwidth transceiver modules based on the QSFP112 form factor, targeting NICs used in data centers, high-performance computing networks, and AI applications.

COMNEN 400G QSFP112 DR4 LPO Optical Transceiver Datasheet

This product is a 400Gb/s QSFP112 optical module designed for 0.5Km optical communication applications. The module converts 4 channels of 100Gb/s (PAM4) electrical input data to 4 channels

QSFP112 Published Specification Rev

Each Participant acknowledges the Specifications will provide a common solution for combined four-channel fiber optic ports that support SONET/SDH and/or Ethernet and/or Fiber Channel specifications.

400G QSFP112 DR4 1310 nm Transceiver 500m

The electrical interface of QSFP112 module consist of a 38 contacts edge connector as illustrated by the diagram in below picture, which defined in Clause 4.1 of QSFP112 MSA Specification.

400G LPO QSFP112

Eoptolink QSFP112 400G LPO transceivers are compliant to the latest releases of the QSFP112 MSA. The firmware supports CMIS 5.0 and newer release. We

Where co-packaged optics (CPO) technology stands in

Co-packaged optics (CPO) technology, a key enabler for next-generation data center architectures, promises unprecedented bandwidth density

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GlobalFoundries launches SCALE optics for AI data centers | GFS

GlobalFoundries (Nasdaq: GFS) on May 4, 2026 introduced the SCALE optical module solution for co-packaged optics (CPO), billed as the industry''s first OCI MSA-capable platform.

Optics Primer, Part 3: Co-Packaged Optics (CPO)

Optics Primer, Part 3: Co-Packaged Optics (CPO) From EML lasers and DSPs to silicon photonics and external CW lasers. How CPO works and the

400G DR4 LPO Single-Mode Optical Module in QSFP112 Package

400G DR4 LPO optical module, Q112 package, MPO12/APC interface, wavelength 1310nm, maximum transmission distance 500m, electrical port side 4*100G, optical port side 4*100G

The Evolution of Optical Modules: 400G → 800G → 1.6T – A Strategic ...

Over the past five years, data center interconnects have transitioned from incremental upgrades to a dramatic shift. With 400G modules now the baseline, 800G adoption is

400G QSFP112 DR4 1310 nm Transceiver 500m

0 to 70°C Ascent''s Q112-400G-DR4-05 400 Gbps QSFP112 DR4 transc eiver is a 400Gb/s Quad Small Form-factor Pluggable (QSFP) optical module design for 500 m optical communication applications.

Q112-LR4-400G Data Sheet

I. General Description The 400G QSFP112 LR4 Transceiver is designed to transmit and receive serial optical data links up to 106.25 Gb/s data rate (per channel) by PAM4 modulation format over single

QSFP-DD vs OSFP vs QSFP112: Which 400G Module

400G optical module packaging comparison: Choose QSFP-DD, OSFP, or QSFP112 for data center, AI, or HPC based on compatibility, power, and cost.

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

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