

Data Center Interconnect Cambodia Tunable Optical Module QSFP-DD



Overview

Supporting transmission distances of up to 120 km, this module is ideal for data center interconnect (DCI) and metro network deployments requiring high-capacity, long-haul optical links without the need for external transponders. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. Built on IP-over-DWDM (IPoDWDM) principles, it directly integrates the IP packet layer with the DWDM optical layer using standardized, pluggable coherent optics. This. Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe[®] Gen 5.0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. On the host side, the module can accommodate a variety of signal types including 100GE, 200GE, 400GE, OTU4. A QSFP-DD form-factor OIF 400ZR and OpenZR+ MSA transceiver for 100 - 400Gbps Ethernet applications with a transmit power of 0dBm The TQD013-TUNC-SO is a high-performance QSFP-DD form-factor transceiver designed for long-reach 400G Ethernet applications.



Article Content

400G QSFP-DD ZR DCO Optical Transceiver Overview

In summary, the 400G QSFP-DD ZR DCO module is an ideal choice for next-generation data center interconnects and long-haul transmission. Combining high speed, long reach, low power

QSFDD-ZR-400G Datasheet | FS

400G QSFP-DD DCO DWDM TUNABLE COHERENT 120KM DOM TRANSCEIVER
Description The FS QSFP-DD Digital Coherent Optics (DCO) transceiver supports 400G coherent transmission for data

40G QSFP: The Core of Optical Network Interconnection

Moreover, the fiber cables carry the embedded optical signals, which previously have been converted by the QSFP-DD modules from electrical

Cisco 100GBASE QSFP-DD 100G ZR Module Data Sheet

The Cisco 100G Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) 100G ZR provides customers with a 100 Gigabit Ethernet ZR

QSFP-DD Optical Transceivers Unlocking Faster

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern

400G QSFP-DD FR4: Definitive Technical & Deployment Guide

Discover the standards, technical specifications, deployment tips, and vendor selection for 400G QSFP-DD FR4 modules, enabling high-density, low-power, scalable 400GbE interconnects

Comprehensive Guide to QSFP – MapYourTech

QSFP modules utilize a high-density card-edge connector providing both high-speed differential data lanes and low-speed control/monitoring

800G DCI-box + 800G QSFP-DD ZR: Current Mainstream Technical

Built on IP-over-DWDM (IPoDWDM) principles, it directly integrates the IP packet layer with the DWDM optical layer using standardized, pluggable coherent optics.

FS 400G QSFP-DD: Complete Guide and Solutions

Explore FS 400G QSFP-DD transceivers and cables for cost-effective, low-power, and scalable 400G data center connectivity, supporting

400GBASE-ZRP QSFP-DD 120km Transceiver Datasheet | FS

The 400G QSFP-DD ZR+ is a C-Band optical frequency tunable coherent optical module, combines 7nm coherent DSP ASIC functionality with best inclass ultra-narrow line-width tunable lasers, high speed

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

400GBASE ZR+ QSFP-DD Hyper Silicon Optical Transceiver

Hyper Silicon TM Optical Transceiver The Hyper Photonix 400G QSFP-DD ZR+ transceiver is a high-performance, cost-effective module for optical data communication applications from 100G to 400G.

Cisco 400G QSFP-DD High-Power (Bright) Optical Module

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

400G ZR Coherent QSFP-DD DCO | Tunable | EDGEOPTIC

EDGEOPTIC 400G ZR Coherent QSFP-DD DCO: 40km unamplified/120km amplified, tunable C-Band 75/100GHz, 10dB, 425 Gbps. LC duplex for metro coherent networks.

400GBASE ZR+ QSFP-DD DWDM LC SMF SiPh

The Hyper photonix 400G QSFP-DD ZR+ transceiver is a high performance, cost effective module for optical data communication applications from 100G to

DATASHEET 6.8 QSFP-DD 100GE DP-QPSK 450KM ETH/OTN

100Gbps Ethernet, OTN and OpenROADM applications. The transceiver is intended for use in interconnect applications between data centers with switches, routers etc. having QSFP-DD supp.

400G ZR+ QSFP-DD Transceiver | Smartoptics

Supporting transmission distances of up to 120 km, this module is ideal for data center interconnect (DCI) and metro network deployments requiring high

QSFP-DD module PCB mass production: mastering opto-electrical co

A deep dive into QSFP-DD module PCB mass production—covering SI, thermal management, and power/interconnect design—to help you build high-performance data-center

400G/300G/200G QSFP-DD Digital Coherent Optics

The FTCD3312R1BCL CFP2 Digital Coherent Optics (DCO) transceiver supports

QSFP-DD Optical Transceivers for High-Speed Connections

Product overview The ongoing explosion of data traffic is driving the need for faster processing, greater bandwidth, and higher density connections within and between data centers. Network operators are

Optical Interconnects Optimize Datacenters | DigiKey

The need for optical interconnects is growing to support the demands for reliable and low latency communications in cloud and other datacenters.

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco Transceiver Modules Compatibility Matrix.

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe ® Gen 5.0 over optical link, enabling

400G QSFP-DD Data Center Interconnect (DCI) | NADDOD

NADDOD's 400G OSFP DCI transceiver is suitable for long-reach data center interconnect applications, ensuring high-capacity and energy-efficient.

Top Optical Transceiver Modules for Data Center Applications

Explore the best optical transceiver modules for modern data centers, including SFP+, QSFP28, QSFP-DD, and OSFP. Learn how to select the right module for speed, distance, and

High Tx Output Power 400G ZR+ QSFP-DD-DCO Transceiver

The Coherent FTCD3323R1PCL QSFP-DD Digital Coherent Optics (DCO) transceiver supports multi-rate coherent transmission for metro / regional and data center interconnect applications. On the host

800G QSFP-DD DR8+: High-Density Optical Interconnect for Next ...

800G QSFP-DD DR8+: High-Density Optical Interconnect for Next-Generation Data Centers With the explosive growth of AI workloads, hyperscale cloud services, and high-performance computing

400ZR DCI Solution

Delivering high bandwidth for distances up to 120km, 400ZR OSFP and QSFP-DD optical transceivers, together with Arista's pluggable line system, enable simple and cost effective Dense Wavelength

Transceiver Modules for Data Center Interconnect

The NADDOD data center interconnect portfolio includes 800G OSFP transceivers, 400G QSFP-DD transceivers and 100G QSFP28 transceivers to connect scale

400G QSFP-DD DCO DWDM Tunable Coherent 120km DOM

On the host side, the module can accommodate either a single IEEE 400GE Ethernet signal or multiple 100GE Ethernet signals ($n = 14$) that are multiplexed onto a single line interface.

Three 80km 100G Optical Solutions for Long-Haul Data Center

Three optical transceiver solutions can be used for up to 80km long-haul 100G data center interconnect (DCI): 100G DWDM coherent optics, 100G PAM4 DWDM QSFP28, and 100G ZR4

400G QSFP-DD Cable and Transceiver Modules Data Sheet

Product overview The FS® 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high-density transceiver modules and the flexibility

Contact Us

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