

# QDD Optical Module Cage

50km/spool





## Overview

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QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed. This product definition will cover mechanical, thermal ), 203371 (1x EMI spring fingers). While in the era of QSFP, QSFP+, and QSFP28 generations of standards moved more slowly and were easier to understand, the new generation of optics and networking, perhaps starting with the 400G generation and beyond, is quickly becoming more complex.



## QDD Optical Module Cage

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### Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

Product overview The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple

### Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

These small, modular optical interface transceivers offer a convenient and cost-effective solution for an array of applications in the data center, campus, metropolitan-area access and ring network, storage



### Interface and Hardware Component Configuration Guide for Cisco

Guide to configuring QDD Optical Line Systems, including operational modes, safety features, and troubleshooting alarms.



### Cisco QSFP-DD Pluggable Open Line System (QDD

Cisco offers a comprehensive range of pluggable optical modules in



### 400G QSFP-DD DCO ZR+ Coherent Optical Transceiver QSFP-DD

Ascent's 400G ZR+ QSFP-DD Digital Coherent Optic Modules are 400 Gb/s Quad Small Form Factor Pluggable- double density (QSFP-DD) transceivers designed for 480 km optical



### Generic Compatible 400GBASE-SR8 QSFP-DD

NADDOD Generic Compatible 400G QSFP-DD SR8 optical transceiver modules are designed for AI and HPC data center 400G Ethernet networks. This 400G module



### QSFP-DD Connectors, Cages and Cable Assemblies

TE's QSFP-DD 2x1 cages and connectors add to the wide range of existing QSFP-DD surface mount products, providing customers with additional design options



- IP65/IP55 OUTDOOR CABINET
- IP54/55
- OUTDOOR ENERGY STORAGE CABINET
- OUTDOOR BATTERY CABINET



### Configuring QDD Optical Line System

Currently, an optical line system (OLS) requires a separate Cisco Network Convergence System 1000 Series or Cisco Network Convergence System 2000 Series optical system with dedicated 48 or 64



### QSFP-DD Optical Module Overview: What is the differ?

This article will provide a detailed comparison of the current mainstream 400G optical modules, including QSFP-DD, QSFP56, OSFP, CFP8,



### Configuring QDD Optical Line System

Supported Wavelength or Frequency Configuration Currently, an optical line system (OLS) requires a separate Cisco Network Convergence System 1000 Series or Cisco Network Convergence System



### QSFP-DD Connectors , High Speed I/O , Amphenol

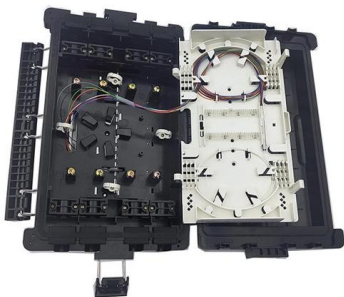
The cage and connector design provides backwards compatibility to QSFP56 modules which can be inserted into a QSFP DD port to offer utmost





### Cisco QDD-400G-ZR-S Compatible QSFP-DD DCO 400G DWDM

Cisco QDD-400G-ZR-S Compatible 400G DWDM Tunable QSFP-DD Transceiver Module (SMF, 1528.77~1567.13nm, <=120km, LC, DOM) The 400GBASE-ZR transceiver supports link lengths of up



### Specification - QSFP-DD

June 25, 2024 - QSFP-DD/QSFP-DD800/QSFP-DD1600 Hardware Specification for QSFP DOUBLE DENSITY 8X TRANSCEIVERS - Rev 7.1  
September 27, 2023 - QSFP-DD/QSFP-DD800

### Interface and Hardware Component Configuration Guide

QDD optical line systems A QDD optical line system is a pluggable optical amplifier that integrates amplification directly into a QSFP-DD module,



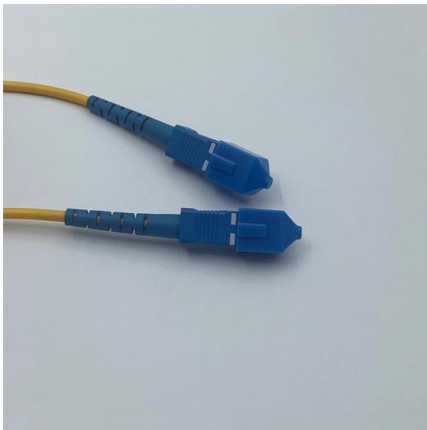
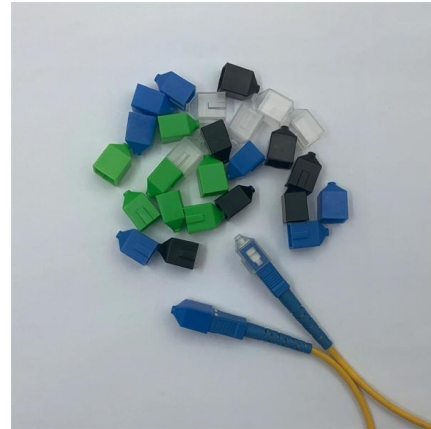
### QSFP-DD

This will include a mechanical module, a 2x1 Cage with connector, thermal, pinout and management specifications. The QSFP-DD will be able to support both



## Management Interface

Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double Density (QSFP-DD)



## QSFP-DD Connector System

QSFP-DD Interconnect System's 8-lane electrical interface transmits 28G NRZ, 56G PAM-4 and 112G PAM-4, up to 200, 400 or 800 Gbps aggregate. Backwards

## QDD 400G SR8 S: Efficient 400G Optical Module Guide

Learn QDD 400G SR8 S features, applications, and benefits. A complete guide to 400G SR8 optical modules for modern data centers.



## QSFP Versus QSFP-DD Here Are the Key Differences

QSFP-DD was designed in such a way that you should be able to plug QSFP devices into QSFP-DD cages and have them work. The reverse is not true,



### 800G OSFP & QSFP-DD Transceiver Module Installation Notes , FS

After removing the optical fibers, protect them by inserting a clean dust cover on the pluggable module. Make sure to clean the optical surface of the cable before plugging it back into the optical port of the



### 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

### Cisco 400G Digital Coherent Optics QSFP-DD Optical

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers



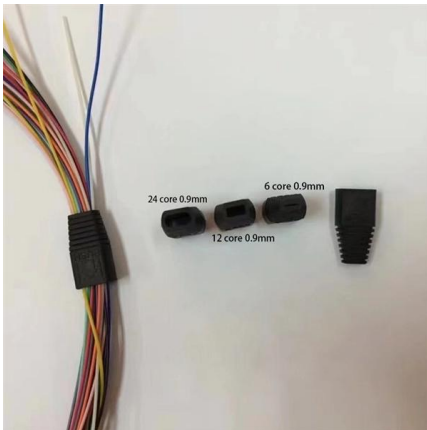
### PRODUCT SPECIFICATION

3.2 INDUSTRY DOCUMENTS QSFP-DD MSA Specification - QSFP-DD supports up to 400 Gb/s Cage (Style A)

### Differences Between QSFP-DD and QSFP+ / QSFP28 /



As a leading solution in high-speed applications, QSFP-DD transceivers are often compared with other modules such as QSFP56, QSFP112,



### QSFP-DD Hardware

August 7, 2020 Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies, mechanical and thermal requirements of the pluggable QSFP Double

## Contact Us

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