

QDD Optical Module Standard





Overview

The module is designed for ZR 400G DCI / PTN applications and ZR+200G metro long-haul OTN applications. It provides high-speed data channels, IIC interface module control and state alarm reporting with 3. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces. Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable. This guide explores the evolving landscape of 400G coherent optics, comparing ZR standards, vendor-specific and performance-optimized modules, while also offering some insight into their deployment, considerations, power consumption, and interoperability. The 400ZR is an Optical Interworking Forum (OIF) standard for transporting 400GbE over long distances through fiber optic cables. With one VOA inside the TX optical path the output optical power has 4dB attenuation window.



QDD Optical Module Standard



400G QSFP-DD Portfolio and Interoperability

Part of our ongoing work includes delivering 400G optics modules to customers that meet industry standards for performance and interoperability. These standards

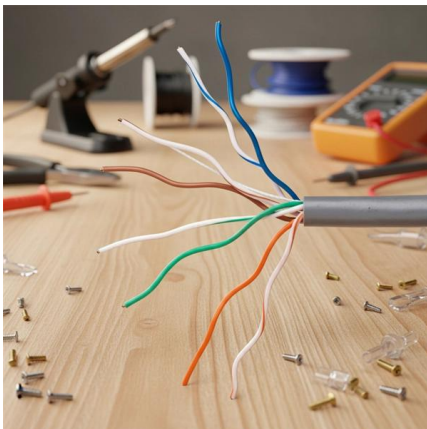
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SFP Optical Transceiver , SFP Optical Module , Perle

For example, by simply replacing the pluggable optical transceiver, a media converter that was originally used in a multimode network can be re-configured to



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Arista QDD-400G-XDR4-Arista , 400G QSFP-DD Transceiver, Single

Description The Arista QDD-400G-XDR4 is a 400GBASE-XDR4 QSFP-DD optical transceiver designed for high-speed data center and campus connectivity over single-mode fiber. Supporting 400Gb/s

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400G ZR+ QSFP-DD Coherent Optical Module

It provides high-speed data channels, IIC interface module control and state alarm reporting with 3.3 V power supplied. The QSFP-DD coherent optical module uses a 76-pin connector as an electrical



Celestial AI Introduces Photonic Fabric(TM) Module

August 29, 2025 -- Celestial AI, the creator of the Photonic Fabric(TM) scale-up networks for accelerated computing, has introduced the Photonic Fabric Module,

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400G QSFP-DD Cable and Transceiver Modules Data Sheet , FS

The QSPDD-ER8-400G Module supports link lengths of up to 40km over a standard pair of G.652 single mode fiber (SMF) with duplex LC connectors. It is compliant to IEEE 802.3cn

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400G QSFP-DD DCO ZR Transceiver 400G QSFP-DD DCO ZR

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

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SFP Optical Module 1.25G Single Optical Fiber 20km

This is a standard SFP optical module. It uses a single mode optical fiber and the speed rate can up to 1.25Gbps, transmission distance up to 20 km.

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Cisco QSFP-DD Pluggable Open Line System (QDD)

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that provides a simple yet powerful open line

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Arista QDD-800G-2PLR4-Arista , 800G QSFP-DD Transceiver, 10km

A: The QDD-800G-2PLR4 has a typical power consumption of approximately 16W, which is standard for 800G QSFP-DD optical transceivers. Ensure your platform can support the higher power

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Cisco QDD-400G-ZR-S Datasheet

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

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Arista QDD-400G-ZR2 , 400G Digital Coherent Tunable Transceiver,

The Arista QDD-400G-ZR2 is a high-performance QSFP-DD digital coherent optical transceiver designed for 400G data center interconnect applications. Featuring C-band tunable wavelengths and

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Cisco 400G Digital Coherent Optics QSFP-DD Optical

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

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Arista QDD-400G-SR8-C-Arista , 400G QSFP-DD Transceiver, Multi

It delivers 400Gbps throughput over multi-mode fiber up to 100m using eight parallel optical channels at 850nm via an MPO-16 connector. This channelized module supports breakout configurations for

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400Gb/s QSFP-DD ZR+ Coherent Optical Transceiver

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

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Arista QDD-400G-FR4-Arista , 400GBASE-



FR4 Transceiver, 400G

The Arista QDD-400G-FR4 is a high-performance 400GBASE-FR4 transceiver designed for 2km optical communication over single-mode fiber. This QSFP-DD module converts 8 channels of 50Gb/s PAM4

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Cisco 400G Digital Coherent Optics QSFP-DD Optical

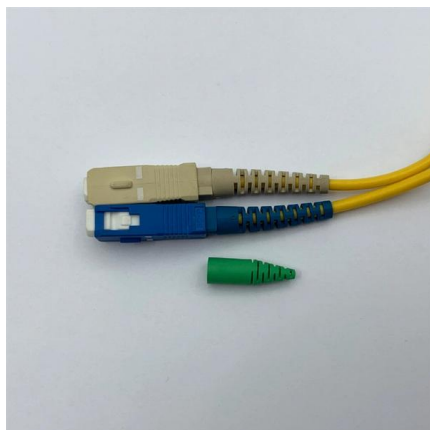
Two product variants are available: 1. ZR variant
2. ZR Plus variant QDD ZR overview The QSFP-DD ZR variant complies with OIF MSA, allowing to

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Overview , Junos OS , Juniper Networks

The primary application of 400ZR optics (model numbers QDD-400-ZR and JCO400-QDD-ZR) is to interconnect data centers within a distance of up to 120 km. Data centers require high bandwidth,

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Google's High-Speed Interconnect Architecture to Push

Google's next-generation TPU, Ironwood, integrates a 3D Torus network topology with the Apollo optical circuit switch (OCS) all-optical network,

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The Evolution of Optical Modules: 400G -> 800G -> 1.6T - A Strategic

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and upgrade strategies for future-ready data centers.

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

All network operators can now approach the Routed Optical Networking solution without any limitation driven by the legacy WDM system, as there is no substantial difference from the optical power point

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400G Coherent Optics Guide: ZR, ZR+ & MZR Comparison

It's fully open-standard, enabling multi-vendor interoperability, and is physically packaged in QSFP-DD or OSFP modules compatible with standard

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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

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400G Optical Transceiver: Cisco 400G Optics, Pricing & Applications

CFP8 400G: an early standard, gradually replaced by QSFP-DD. Currently, the QSFP-DD 400G optical transceiver has been regarded as the first choice for modern data centers. Cisco 400G

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Arista QDD-800G-2FR4-Arista , 800G Transceiver, 2x 400G FR4,

Description The Arista QDD-800G-2FR4 is an 800GBASE-2FR4 QSFP-DD optical transceiver designed for high-density data centre interconnects. It supports breakout to 2x 400GBASE-FR4 via dual

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For datasheets, pricing, or custom fiber access solutions, please visit:
<https://www.frindel.es>