Cisco QDD-400G-FR4-S Datasheet

Cisco QDD-400G-FR4-S 400G QSFP-DD Transceiver, 400G-FR4, Duplex LC, 2km Duplex SMF

QDD-400G-FR4-S

The Cisco family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower-speed QSFP pluggable modules and cables.

The Cisco 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 of 400 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider applications. The QSFP-DD modules are our new generation of 400G transceiver modules based on a QSFP-DD form factor.

Features and benefits of Cisco QSFP-DD modules

- Hot-swappable - Input/output device that plugs into 400G Ethernet Cisco QSFP port
- Interoperable - Interoperable with other IEEE-compliant 400GBASE interfaces where applicable
- Certified on Cisco platform - Certified and tested on Cisco QSFP-DD 400G ports for superior performance, quality, and reliability
- Compatible with IEEE 802.3 - High-speed electrical compliant to IEEE 802.3cd and IEEE 802.3bs
- Compatible with MSA - Optical and coding compliant to QSFP-DD MSA Rev4.1, OIF 56G PAM4, and 100G Lambda-

FR4 MSA

- Backward compatibility - QSFP-DD port is backward compatible with QSFP+ and QSFP28 modules

QDD-400G-FR4-S

The Cisco QDD-400G-FR4-S Module supports link lengths of up to 2km SMF with duplex LC connector. It is compliant to IEEE 802.3bs, 400GBASE-FR4 Spec of 100G Lambda MSA group, and 400GAUI-8/CEI-56G-VSR-PAM4 standards. The 400 Gigabit Ethernet signal is carried over four CWDM grid optical wavelengths. Multiplexing and demultiplexing of the four wavelengths are managed within the device. FEC is performed on the host platform.

Specifications

- Part ID: QDD-400G-FR4-S
- Product description: Cisco 400G QSFP-DD Transceiver, 400G-FR4, Duplex LC, 2km Duplex SMF
- Nominal wavelength: 1270, 1290, 1310, 1330nm
- Cable type: Duplex SMF
- Cable distance: 2km
- Pull tab color: Green
- Nominal rate: 425Gbs
- High-speed electrical: 400GAUI-8/CEI-56G-VSR-PAM4
- Average Transmit Power per lane (dBm) min: -3.2
- Average Transmit Power per lane (dBm) max: 3.5
- Average Receive Power per lane (dBm) min: -7.3
- Average Receive Power per lane (dBm) max: 3.5
- Maximum Supported Insertion Loss (IL) (dB): 4
- Max power consumption (W): 12W

- Operation temperature: 0 to 75°C

- Storage temperature: -40 to 85°C

Platform support

Cisco QDD-400G-FR4-S is supported on a wide range of Cisco equipment.

- Cisco Nexus 9316D-GX
- Cisco N3432D-S

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