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Cisco 100GBASE QSFP-DD 100G ZR Module

Contents

Product overview

The Cisco 100G Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) 100G ZR provides customers with a 100 Gigabit Ethernet ZR connectivity option for data centers, high-performance computing networks, enterprise core and distribution layers, and service provider applications. This QSFP-DD 100G module is our 100G transceiver module solution for host equipped with QSF-DD ports that requires to remotize the signal up to 80 km and more.

QSFP-DD 100G ZR transceiver

Figure 1.
QSFP-DD 100G ZR transceiver

Features and benefits

The Cisco QSF-DD 100G ZR supports a 100GBASE-R client interface over an optical link length of up to 80 km over a standard pair of G.652 single-mode fiber with duplex LC connectors. The 100 Gigabit Ethernet signal is carried over a single coherent wavelength in the C-band spectrum region.

It is also possible to extend beyond 80 km leveraging on external amplification, providing the CD robustness specification are not exceeded.

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Product specifications

The QSFP-DD 100G ZR module supports the following optical specification:

Table 1.   Optical Specifications

Payload Rate	Line Mode	Symbol Baud Rate	Modulation	Tx Power	FEC	TX Wavelength
100G	100G-100ZR-OFEC-QPSK	30.07 Gbaud	16QAM	-5 dBìm	OFEC	193.7 Thz

Table 2.   RX Optical Specifications

Payload Rate	Line Mode	RX Sensitivity High OSNR	RX OSNR Sensitivity	CD Robustness	DGD Robustness
100G	100G-100ZR-OFEC-QPSK	-32 dBm	14 dB (Typ)	+/-2400 ps/nm	40 ps

Ordering information

Cisco QSFP-DD 100G ZR module

Product ID	Product Description
DP01QSDD-ZF1	100GBPS COHERENT QSFP-DD, 100G ZR Fixed Laser

Warranty information

Product warranty terms and other information applicable to Cisco products are available at www.cisco.com/go/warranty.

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