CFP2 400G ZR Coherent QSFP-DD

Variants

CFP2 400G ST-QDFC

Details

ST-QDFC 400G Coherent QSFP-DD Module

The ST-QDFC coherent optical module is designed for Data Center Interconnect (DCI) applications and complies with the OIF 400ZR MSA and QSFP-DD MSA standards. It supports digital diagnostics through an I2C interface and delivers high-performance 400G coherent transmission in a compact QSFP-DD Type 2 form factor.

The module operates on the C-band 75 GHz / 100 GHz grid and integrates coherent DSP ASIC functionality with ultra-narrow linewidth tunable lasers, high-speed modulators, and highly responsive coherent receivers. It supports 400G 16QAM modulation at 60G baud rate and is optimized for modern high-capacity optical networking.

Key Features

Feature	Details
Standard Compliance	QSFP-DD MSA, OIF 400ZR (Version 01.0, March 10, 2020)
Diagnostics	Digital Diagnostic Monitoring via I2C interface
Electrical Interface	Hot pluggable 76-pin electrical interface
Modulation	400G 16QAM
Bit Rate	400GBASE-R, 425 Gbps
Electrical Lane Interface	400G-AUI-8 C2M; 8 × CEI-56G-VSR PAM-4

Optical Connector	LC Duplex
Power Consumption	Maximum 16.5 W
Power Supply	Single +3.3 V
Operating Temperature	0°C to 70°C
Environmental Compliance	RoHS 2 compliant

Optical & Performance Specifications

Parameter	Specification
Application	Data Center Interconnect (DCI)
Optical Band	C-band
Grid Support	75 GHz / 100 GHz grid
Baud Rate	60G baud
Laser Type	Ultra-narrow linewidth tunable laser
DSP	Integrated coherent DSP ASIC
Receiver Type	High-responsivity coherent receiver

Mechanical Specifications

Parameter	Specification
Form Factor	QSFP-DD Type 2
Dimensions	18.4 mm × 93.4 mm × 8.5 mm
Connector Type	LC Duplex
Footprint	Compliant with QSFP-DD MSA

Hot Plug Support	Supported

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