

400G QSFP-DD-FR4 Transceiver

SKU#: ECX-QSFP-DD-FR4

The ECX-QSFP-DD-FR4 is a transceiver module designed for 2km optical communication applications, and it is compliant to 100G Lambda MSA standard. This module can convert 8-channel 53.125Gb/s electrical data to 4-channel 106.25Gb/s optical signals, and multiplex them into a single channel for 425Gb/s optical transmission. Similarly, it optically de-multiplexes a 425Gb/s input into 4-channel signals, and converts them to 8-channel output electrical data on the receiver side. It has been designed to meet the harshest external operating conditions including temperature, humidity and EMI interference. The module offers very high functionality and feature integration, accessible via a two-wire serial interface.



Figure 1 - 400-Gbps QSFP-DD FR4 Optical Transceiver Module

PRODUCT FEATURES

- QSFP-DD MSA compliant
- Compliant to 100G Lambda MSA
- 400G FR4 Specification compliant
- 4 CWDM lanes MUX/DEMUX design
- 8x53.125Gb/s PAM4 electrical interface (400GAUI-8)
- Maximum power consumption 12W
- Non-hermetic package design
- LC duplex connector
- Supports 425Gb/s aggregate bit rate
- Up to 2km transmission on single mode fiber with FEC
- Single 3.3V power supply
- RoHS-6 compliant

PRODUCT APPLICATIONS

- 400 Gigabit Ethernet
- Data Center Interconnect

TRANSCEIVER BLOCK DIAGRAM

