

# 400G QSFP-DD-DR4 Transceiver

SKU#: ECX-QSFP-DD-DR4

The ECX-QSFP-DD-DR4 is a transceiver module designed for 500m optical communication applications, and it is compliant to IEEE 802.3bs 400G DR4 MSA standard. This module can convert 8-channel 53.125Gb/s electrical data to 4-channel 106.25Gb/s optical signals. Similarly, it can convert 4-channel 106.25Gb/s optical signals 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 DR4 Optical Transceiver Module

## PRODUCT FEATURES

- QSFP-DD MSA compliant
- Compliant to 802.3bs
- 400G DR4 Specification compliant
- 8x53.125Gb/s PAM4 electrical interface (400GAUI-8)
- Non-hermetic package design
- Maximum power consumption 12W
- MPO connector
- Supports 425Gb/s aggregate bit rate
- Up to 500m transmission on single mode fiber with FEC
- Operating case temperature: 0°C~70°C
- Single 3.3V power supply
- RoHS-6 compliant

## PRODUCT APPLICATIONS

- Ethernet for 400GBASE-DR4
- For 400 Gb/s Ethernet Application
- HPC Interconnects
- Proprietary Interconnections

# TRANSCEIVER BLOCK DIAGRAM

