

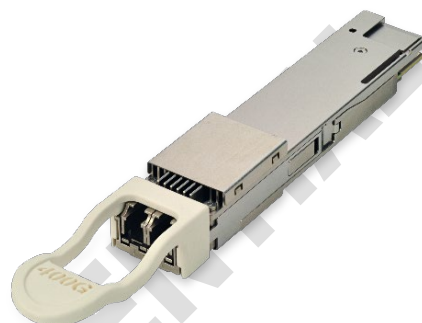
Preliminary Product Specification

High Tx Output Power 800G ZR+ QSFP-DD DCO Transceiver

FTCE3316R1PCL / FTCE3326R1PCL

PRODUCT FEATURES

- Digital Coherent Optics module, QSFP-DD form factor
- Multiple 800G/600G/400G coherent line optical modes based on OIF ZR and OpenZR+ MSAs
- Supports IEEE host client signals of 800GE, 400GE, 200GE, and 100GE
- Two transmitter optical output powers available:
 - High power of 0 dBm
 - Standard power of -7 dBm
- Transmission reach up to 450km at 800G, with extended reaches at lower data rates
- Full C-band tunable with flexible grid support
- Power dissipation ≤ 30 Watts



APPLICATIONS

- Metro / regional ROADM networks
- Data center interconnect

Coherent's FTCE33x6R1PCL QSFP-DD Digital Coherent Optics (DCO) transceivers supports multi-rate coherent transmission for metro, regional, and data center interconnect applications. On the host side, the module can accommodate either a single IEEE 800GE Ethernet signal or multiple 400GE/200GE/100GE Ethernet signals ($n = 1 \dots 8$) [1] that are multiplexed onto a single line interface. On the line side, the module supports 800G, 600G, and 400G line interfaces using dual polarization 16QAM, 8QAM, or QPSK modulations at symbol rates from 60 GBd to 118 Gbd. Upon request, additional high-performance modes are available with Probabilistic Constellation Shaping to extend transmission reach even further.

The FTCE3326R1PCL provides high transmitter optical output power to be compatible with deployed and emerging ROADM line systems.

The transceiver modules are compliant to the QSFP-DD MSA Hardware Specification [4] and the Common Management Interface Specification (CMIS) [5] with extensions specified in the OIF Coherent CMIS implementation agreement [6]. The transceiver is RoHS compliant as described in Application Note AN-2038 [8-9].

PRODUCT SELECTION

| Product | Description |
|---------------|--|
| FTCE3316R1PCL | 800G QSFP-DD Digital Coherent Optics Transceiver, ZR+, Tx output power = -7 dBm, C-band tunable, LC receptacle |
| FTCE3326R1PCL | 800G QSFP-DD Digital Coherent Optics Transceiver, ZR+, Tx output power = 0 dBm, C-band tunable, LC receptacle |