XQD**9-L0LY / XQDC09-L0LY-FJ

100G ZR QSFP28 digital coherent optics transceiver

FEATURES

- **Hot-Pluggable Digital Coherent Optics Module** in QSFP28 form factor with an extended front section (compliant with QSFP-DD Type 2 mechanical specifications)
- **Host Interface** compliant with IEEE 100G Ethernet (CAUI-4) or ITU-T 100G OTN (OTL4.4) standards
- **100G Coherent Optical Interface** using DP-DQPSK modulation and Staircase FEC, compliant with IEEE 802.3-2022 (100GBASE-ZR) or ITU-T G.709.2
- **High Transmit Output Power** exceeding 0 dBm for compatibility with ROADM-based optical line systems
- **Optional Tunable Optical Filter** for out-of-band noise suppression
- **Full C-Band Tunability**, supporting 50 GHz or 100 GHz grid spacing, with optional **Flextune™** for automatic wavelength tuning
- **Operating Case Temperature Range**: 0°C to 70°C (commercial temperature grade)
- **Typical Power Consumption**: Less than 6.0 W
- **Support for Remote Digital Diagnostics Monitoring**

APLICATIONS

- **Access and Aggregation Network Applications**
- **Cable Television (CATV) Infrastructure**
- **Wireless Midhaul and Backhaul Transport**

DESCRIPTION

The Coherent transceiver module is a QSFP28 Digital Coherent Optics (DCO) solution designed to support 100G transmission over distances up to 300 km (dispersion-limited), making it ideal for edge network applications.

On the host interface, the module supports both IEEE 100G Ethernet (100GE) and ITU-T OTN OTU4 signal formats. On the line interface, the module adheres to specifications defined by IEEE Std. 802.3-2022 (100GBASE-ZR) and ITU-T G.698.2 DW50U-8A2(C)F / DW100U-8A2(C)F, utilizing a 27.95 GBd dual-polarization differential QPSK (DP-DQPSK) modulation format.

An integrated optical amplifier enables high transmit output power. Additionally, an optional Tunable Optical Filter (TOF) may be included post-amplification to suppress out-of-band noise, enhancing compatibility with colorless ROADM line systems.

The module features a C-band tunable local oscillator laser and optionally supports Flextune™ for automatic wavelength tuning.

PRODUCT SPECIFICATION

Ordering information

XQDC09-L0LY-FJ	100G ZR QSFP28 Digital Coherent Optics Transceiver	High Tx output power w/o TOF, Fixed grid C-band tunable	100GE & OTU4, C-temp, 0°C to 70°C, LC receptacle, CMIS
XQDC19-L0LY	100G ZR QSFP28 Digital Coherent Optics Transceiver	High Tx output power w/o TOF, Fixed grid C-band tunable	100GE & OTU4, C-temp, 0°C to 70°C, LC receptacle, CMIS
XQDC39-L0LY	100G ZR QSFP28 Digital Coherent Optics Transceiver	High Tx output power w TOF, Fixed grid C-band tunable	100GE & OTU4, C-temp, 0°C to 70°C, LC receptacle, CMIS
XQDZ19-L0LY	100G ZR QSFP28 Digital Coherent Optics Transceiver	High Tx output power w/o TOF, Fixed grid C-band tunable	C-temp, 0°C to 70°C, LC receptacle, SFF-8636 MIS
XQDC39-L0LY	100G ZR QSFP28 Digital Coherent Optics Transceiver	High Tx output power w TOF, Fixed grid C-band tunable	C-temp, 0°C to 70°C, LC receptacle, SFF-8636 MIS

Notes

For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

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