

40G QSFP+ PSM4 10km

40G Eth, QSFP+, PSM4, OTU2, 10km, MPO, 1310nm, SM

CPQ-10E-LR-CDP02

OVERVIEW

The CPQ-10E-LR-CDP02 is a single mode QSFP+ transceiver designed for 40Gbps applications where the transport is made using four independent transmit and receive channels, each operating up to 11.2Gbps. It is intended for use in inter- and intra-connect applications within and between data centers with switches, routers, storage equipment etc. The transceiver can also be used for 10GbE-LAN interconnect applications, providing a higher density as compared to four individual 10G connections using e.g. SFP+ transceivers.

The CPQ-10E-LR-CDP02 provides transport over an MPO 12 or 8 ribbon fiber cable up to 10km over a SingleMode (SM) fiber.

KEY SPECIFICATIONS

- QSFP+ transceiver with MPO-8 / 1MPO-12 connectors
- Support for 40G Ethernet (40GBASE-PLR4), OTU2 and Infiniband QDR/DDR
- Four parallel lanes operating up to 11.2Gbps each
- Total aggregate bandwidth of 40Gbps
- Operates at 1310nm wavelength
- Transmission distance up to 10km over single mode fiber
- Power consumption of max 2.5W
- Commercial operating temperature: 0°C to +70°C

TECHNICAL DATA

Parameter	Value	Parameter	Value
Form Factor	QSFP+	Transmitter Data:	
Transmission Media	MPO	Tx Power	-5.5 to 2.3dBm ³⁾
Typical Reach	10km	Tx Power, OMA	-4.5 to 3.5dBm ³⁾
Nominal Wavelength	1310nm	Tx Wavelength	1270-1350nm
Data Rate Support	10.3125/11.2Gbps ¹⁾ 40 Gbps ²⁾	Extinction Ratio	≥ 3.5dB
Protocol Support	40GbE, 4x10GbE-LAN, OTU2	Receiver Data:	
Power Consumption	<2.5W	Rx Sensitivity, OMA	-11.5dBm ³⁾
Operating Temperature	0°C to 70°C	Rx Overload, max	2.3dBm
Storage Temperature	-40°C to 85°C	Rx Wavelength	1270-1350nm
DDM	Yes	LOS Assert	-30dBm
		LOS De-assert	-15dBm

¹⁾ Line rate per lane

²⁾ Aggregated data rate 40GbE

³⁾ Average Power, per lane

Safety/Regulatory Compliance

- Class 1 laser safe
- RoHS Compliance

ABSOLUTE MAX RATING

Exceeding these limits can cause permanent damage to the transceiver

Parameter	Value	Parameter	Value
Supply Voltage	-0.5V to 3.6V	Relative Humidity	85%
Storage Temp	-40°C to 85°C	Max Rx Optical Power	3dBm

ORDERING INFORMATION

Ordering Code	Description
CPQ-10E-LR-CDP02	40G QSFP+, PSM4, 10km, MPO, 1310nm, SM, 0 to 70C

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