

# 100G-Q28-DCO-ZRHP

Optical Transceivers



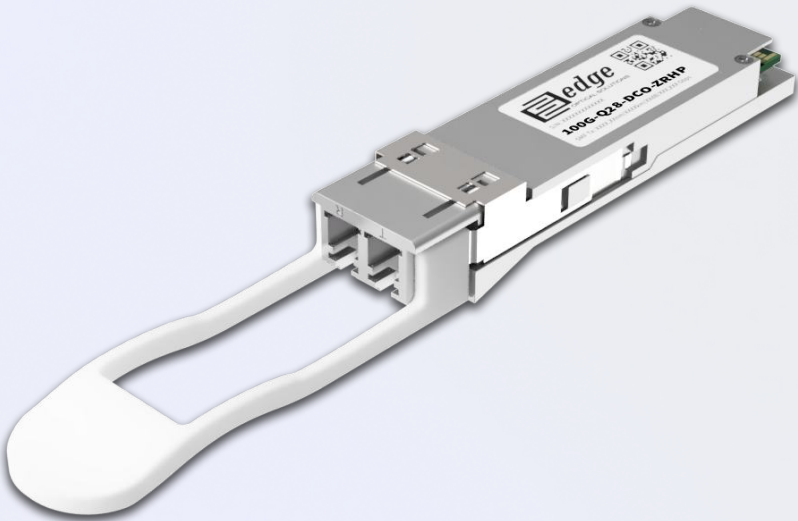
$\lambda = 1567.13-1528.77 \text{ nm}$



OS2 Fiber



Double LC



OB 30dB



Max 300 km amplified



FEC



$PC \leq 5.5 \text{ W}$

## Product description

100G-Q28-DCO-ZRHP is a 100G ZR coherent Digital Coherent Optics (DCO) QSFP28 transceiver module, compatible with Multi-Vendor MSA standards, and designed for operation over duplex single-mode fiber (SMF). The module supports a 100G electrical host interface compliant with IEEE 802.3 CAUI-4 (4× 25.78125 GBd NRZ) and a coherent optical line interface with Staircase Forward Error Correction (FEC). On the transmission side, the module converts 4× 25.78125 GBd NRZ electrical input channels into a single coherent optical signal modulated using DP-DQPSK for long-reach fiber transmission. 100G-Q28-DCO-ZRHP uses top quality ITLA (Integrable Tunable Laser Assembly) operating across the full C-band, tunable on either a 50GHz or 100GHz ITU grid and an ICR (Integrated Coherent Receiver). 100G-Q28-DCO-ZRHP supports DDM/DOM optical diagnostics and operates in Standard 0° to 70°C temperature range and has double LC interface. 100G-Q28-DCO-ZRHP transceiver is CE/RoHS certified and is compliant with the QSFP28 MSA, CMIS Rev 01.1. RoHS. We will be glad to know your requirements!

## Product Specification:

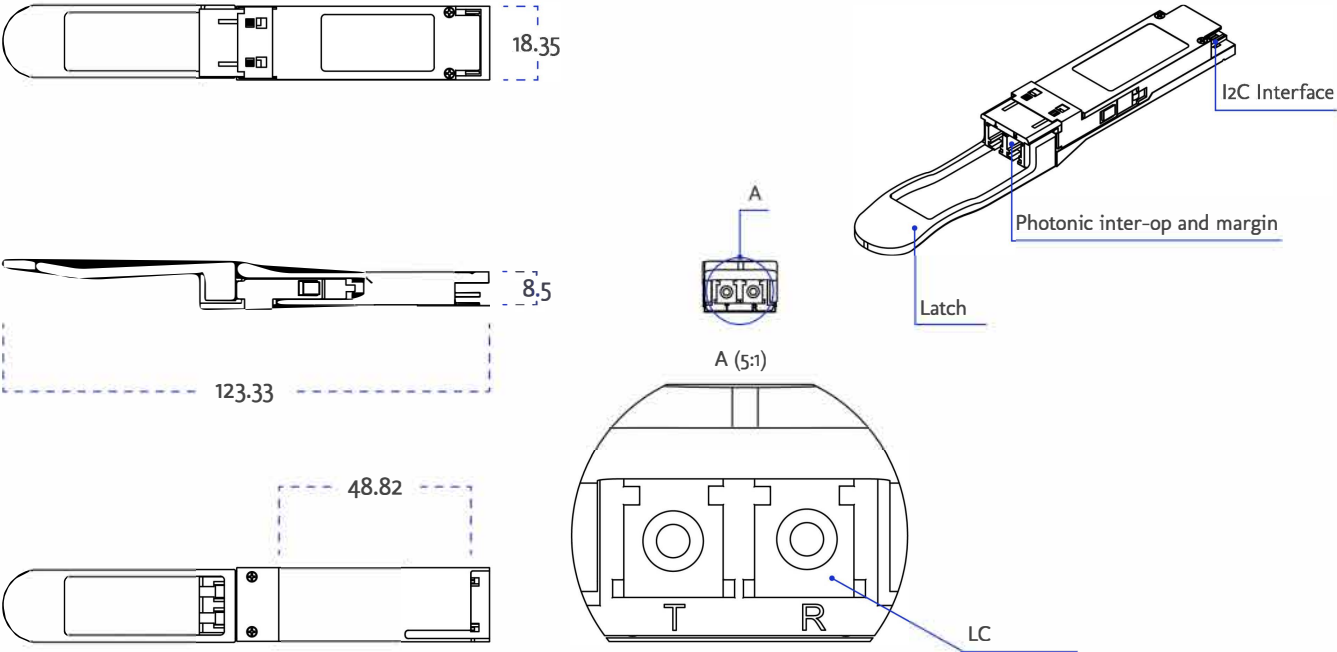
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	C-band tunable, 50GHz or 100GHz grid (1567.13 - 1528.77nm)/ Ch. 13-16
RX Wavelength:	1567.13nm - 1528.77 nm
Minimum Optical Budget:	30 dB
Maximum Distance:	80km (unamplified)   120km (amplified)   300km (amplified and DCM)
Supported Data Rate:	103.125 Gbps

# Product Specification:

Supported Applications:	100G Ethernet
DDM/DOM:	Supported
Forward Error Correction (FEC):	Supported staircase FEC
Transmitter Type:	ITLA
Tx Wavelength Bandwidth:	100GHz (0.1nm) or 50GHz (0.1nm)
Average Launch Power (Min) Each Lane:	0 dBm
Average Launch Power (Max) Each Lane:	0 dBm
Host Side Modulation Format:	NRZ
Receiver Type:	ICR
Rx Wavelength Bandwidth:	100GHz (0.1nm) or 50GHz (0.1nm)
Avg Receiver Sensitivity(Min)Each Lane:	-30 dBm
Avg Receiver Sensitivity(Max)Each Lane:	3 dBm
Receiver Overload:	3 dB
Temperature Range:	Standard 0°C - 70°C
Storage Temperature:	-40° to 85°C
Relative Humidity:	5 to 95%
Power Consumption:	≤ 5.5 W
Power:	3.3V
Compliance:	IEEE Std. 802.3-2022 100GBASE-ZR, ITU-T G.709.2, CE, RoHS

## Mechanical Dimensions

\*The dimensions are given in millimetres [mm]



## Warranty

This product is covered by a **repair-only warranty** for a period of **36 months** from the date of purchase. Please note that we are unable to offer returns or exchanges during or after this period. We appreciate your understanding and are committed to supporting you with any repair-related concerns throughout the warranty coverage.



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