

400G-QDD-DCO-ZRHP

Optical Transceivers



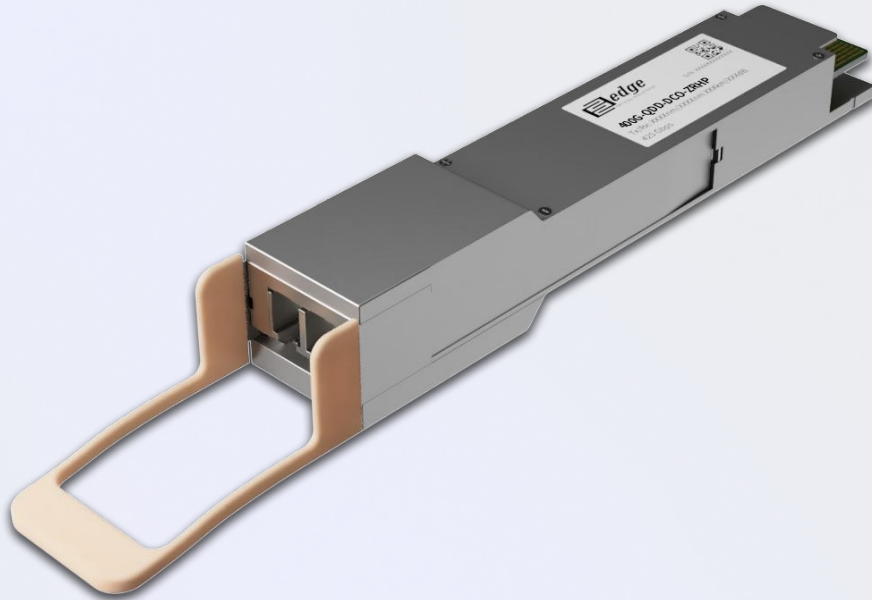
$\lambda = 1528-1567 \text{ nm}$



OS2 Fiber



Double LC



OB 15dB



Max 450 km



oFEC



PC \leq 20W

Product description

400G-QDD-DCO-ZRHP is a 400G OpenZR+ High Tx Coherent QSFP-DD DCO Tunable Multi-Vendor MSA Compatible QSFP-DD (Quad Small Form-Factor Pluggable Double Density) Transceiver designed for operation over Double Single-Mode Fiber (SMF) optical cable. Module supports 400GAUI-8 and 100GAUI-2, host interface. On the transmission side module converts 8x 26.5625G 400GAUI-8 PAM4 (Pulse-Amplitude Modulation) electrical input channels (each 53.125Gbps) into 4 Single Lambda 100G PAM4 optical signals (for 4x100 application) or 1 Single 425Gbps lane mode (for 1x400G application). 400G-QDD-DCO-ZRHP uses top quality ITLA (Integrable Tunable Laser Assembly) Tunable transmitter, operating at nominal C-band 75GHz ITU-T grid (1528 - 1567nm)/ Ch. 13-61 and 400Gb/s PIN photodiode array receiver. 400G-QDD-DCO-ZRHP supports DDM/DOM optical diagnostics and operates in Standard 0°-75°C temperature range and has Double LC interface. 400G-QDD-DCO-ZRHP transceiver is CE/RoHS certified and is compliant to 76pin QSFP-DD Multi Source Agreement (MSA), CMIS 5.0, OIF Implementation Agreement for Coherent 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 75GHz ITU-T grid (1528 - 1567nm)/ Ch. 13-61
RX Wavelength:	1528.77nm-1567.13nm
Minimum Optical Budget:	15 dB
Maximum Distance:	\leq 450 km
Supported Data Rate:	425Gbps

Product Specification:

Supported Applications:	400G Ethernet
DDM/DOM:	Supported
Forward Error Correction (FEC):	Supported oFEC
Host interface Modulation:	PAM4
Media Interface Modulation:	Single-Mode Fiber (SMF)
Transmitter Type:	ITLA
Tx Wavelength Bandwidth:	75 GHz (0.6 nm)
Average Launch Power (Min) Each Lane:	-5dBm
Average Launch Power (Max) Each Lane:	High Tx +4dBm
Extinction Ratio (Min):	3 dB
Receiver Type:	ICR
Rx Wavelength Bandwidth:	75 GHz (0.6 nm)
Rx Input Power Range (Min):	-12 dBm
Rx Input Power Range (Max):	0 dBm
Receiver Sensitivity:	-20 dBm
Avg Receiver Sensitivity(Min)Each Lane:	-8.4 dBm
Avg Receiver Sensitivity(Max)Each Lane:	4 dbm
Receiver Overload:	10 dBm
Temperature Range:	Standard 0°-75°C
Storage Temperature:	-40° to 85°C
Relative Humidity:	0 to 85%
Power Consumption:	≤ 20W
Power:	3.3V
Compliance:	400GAUI-8/100GAUI-2, 76pin QSFP-DD MSA, CMIS 5.0, OIF Implementation Agreement for Coherent CMIS, Rev 01.1, RoHS.

Host Interfaces:

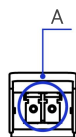
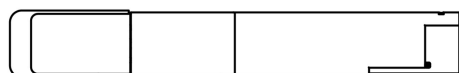
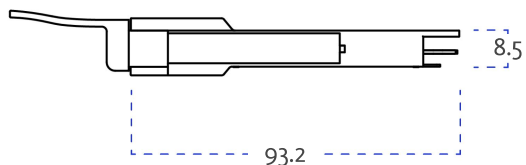
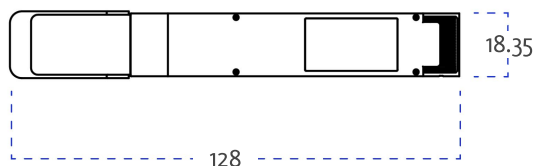
Host Interface	Application Data Rate	Lane Count	Lane Signaling Rate	Modulation
1*400GAUI-8	425.00 Gb/s	8	26.5625 GBaud (+/- 100 ppm)	PAM4
4*100GAUI-2	4*106.25 Gb/s	8	26.5625 GBaud (+/- 100 ppm)	PAM4

Media Interface:

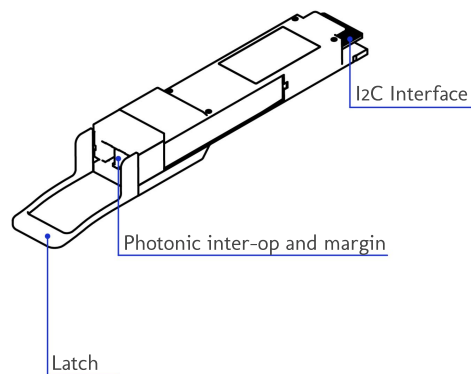
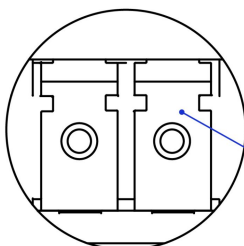
Application Bit Rate	Baud Rate	Modulation	FEC
481.108374 Gb/s	60.1385468 GBd	DP-16QAM	oFEC

Mechanical Dimensions

*The dimensions are given in millimetres [mm]



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Warranty

EDGE Optic's provides a limited warranty for **sixty (60) months** from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.



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