100G QSFP28 DCO DWDM C-Band LC Duplex SMF

Variants

CH 50 CH 46 CH 41 CH 35 CH 31 CH 29 CH 48 CH 51 CH 49 CH 47 CH 45 CH 44 CH 43 CH 42 CH 39 CH 38 CH 37 CH 36 CH 34 CH 33 CH 32 CH 32 CH 30

Details

100G QSFP28 DCO DWDM C-Band Coherent Transceiver

Model: QSP-100COTU
Form Factor: QSFP28 (Digital Coherent Optics)
Connector: LC Duplex | **Fiber Type:** OS2 Single-Mode Fiber

Features

Fully compliant **QSFP28 Digital Coherent Optics (DCO)** module

Full C-Band tunable operation (grid-less, ITU-T G.694.1 DWDM)

Supports 100GE and OTU4 client interfaces with integrated framer and monitoring

DP-QPSK / DQPSK modulation for coherent transmission

Hot-pluggable QSFP28 form factor — compatible with existing 100G QSFP28 ports

Unamplified transmission distance: up to **120 km**

Single +3.3 V power supply

Metal housing for low EMI and robust performance

Operating case temperature:

Standard (ST): ?5 °C to +70 °C

Industrial (IT): ?40 °C to +85 °C

Maximum power consumption: 13 W (ST) / 15 W (IT)

RoHS-6 compliant

Laser Safety: Class I per FDA/CDRH and IEC 60825

Applications

Metro and long-haul **DWDM coherent links**

Wireless mid-haul / back-haul networks

Access and aggregation backhaul networks

100 G unamplified transmission up to 120 km

Data Center Interconnect (DCI) and metro transport systems

Transmitter Optical Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Notes
Data Rate	–	–	–	128	Gb/s	Line rate
Side-Mode Suppression Ratio	SMSR	40	–	–	dB	–
Transmit Output Power	PT	?8	–	?5	dBm	Average
Tx Power Monitor Accuracy	–	?2	–	+2	dB	–
Tx Power Imbalance (X-Pol / Y-Pol)	Px/y	–	–	2	dB	–

Parameter	Symbol	Min	Typ	Max	Unit	Notes
Tx XY Skew	LW	–	–	3	ps	–
Tx IQ Offset	–	–	–	?24	dB	–
Tx IQ Imbalance	–	–	–	1	dB	–
Tx Quadrature Error	–	?5	–	+5	°	–
Tx IQ Skew	–	–	–	2	ps	–
Tx EVM Mask Ratio	EVM	–	–	18	%	–
In-band OSNR	OSNRin	40	–	–	dB/0.1 nm	–
Tx Reflectance	–	–	–	?22	dB	–

Receiver Optical Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Notes
Input Power Range	Pin	?40	–	+5	dBm	Unamplified
Average Sensitivity	Rsen	–	–	?32	dBm	–
Chromatic Dispersion Tolerance	–	–	–	10	ns/nm	0
PMD Tolerance (DGD)	–	–	–	16	ps	1
PDL (2 dB) OSNR Penalty	–	–	–	1	dB	–
Input Power Transient Amplitude	–	?3	–	+3	dB	–
SOP Tracking (< 0.5 dB OSNR Penalty)	–	–	–	100	kHz	–
Rx Reflectance	–	–	–	?22	dB	–
LOS Assert	LOS A	?40	–	–	dBm	–
LOS De-assert	LOS De	–	–	?32	dBm	–
LOS Hysteresis	–	–	–	5	dB	–
OSNR Requirement (Metro)	OSNRmin	16.5	–	–	dB/0.1 nm	2
OSNR Requirement (Long-Haul)	OSNRmin	15	–	–	dB/0.1 nm	3

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