

Q.CO161HG.22.yTC – Extended Datasheet

100G QSFP28 Coherent Tunable DWDM with FEC ZR+ with dual CDR
80 km, C-Band, LC-Duplex, Singlemode

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Table 1 – General Parameter

CMIS Version	Application Code	Host Interface	Baud Rate [GBd]	Modulation	Bandwidth	FEC	Media Lane Reach	Power Consumption
5.2	100GBASE-ZR (IEEE 802.3ct)	CAUI-4 / 100GAUI-4	27.952	DP-DQPSK	100GbE	7% SC-FEC (network) KR4 / KP4 / no FEC (host)	120 km unamplified 300 km amplified	5.5 W (max) 5 W (typ)
5.2	OTU4 (ITU-T G.709.2)	OTL4.4	27.952	DP-DQPSK	OTU4	7% SC-FEC (network) 7% GFEC (host)	120 km unamplified 300 km amplified	5.5 W (max) 5 W (typ)
5.2	Transparent (NRZ agnostic)	OTL4.4 data rate	27.952	DP-DQPSK	Agnostic (NRZ)	Host generated	120 km unamplified 300 km amplified	5.5 W (max) 5 W (typ)

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Laser Protection: This transceiver is a Class 1 laser product. Compliant with IEC-60825, FDA 21CFR1040.10 & FDA 21CFR1040.11 2013, Flexoptix GmbH.

Table 2 – Optical Parameter

Application Code	Frequency Range DWDM Grid	Grid Spacing	Flexible DWDM Grid	Tx Power	Rx Overload	Rx Input Range
100GBASE-ZR (IEEE 802.3ct)	191.25 - 196.1 THz (C-band)	50 / 100 GHz	N/A	-11 dBm to -9 dBm	+10 dBm	-30 dBm to +3 dBm
OTU4 (ITU-T G.709.2)	191.25 - 196.1 THz (C-band)	50 / 100 GHz	N/A	-11 dBm to -9 dBm	+10 dBm	-30 dBm to +3 dBm
Transparent (NRZ agnostic)	191.25 - 196.1 THz (C-band)	50 / 100 GHz	N/A	-11 dBm to -9 dBm	+10 dBm	-30 dBm to +3 dBm

Table 3 – Coherent Parameter

Application Code	Coherent Standard	Rx OSNR Tolerance	Rx Sensitivity @ OSNR	CD Tolerance max @1 dB OSNR Penalty	DGD Max (PMD tolerance)	Pre-FEC BER Limit	Post-FEC BER
100GBASE-ZR (IEEE 802.3ct)	100G ZR DWDM	>16 dB/0.1 nm	-28 dBm OSNR >15.5 dB (SC-FEC)	5500 ps/nm	10 ps	1E-2	<1E-15
OTU4 (ITU-T G.709.2)	100G ZR DWDM	>16 dB/0.1 nm	-28 dBm OSNR >16.5 dB (SC-FEC @-18 dBm)	5500 ps/nm	10 ps	1E-2 (SC-FEC) ~4.6E-4 (GFEC)	<1E-15
Transparent (NRZ agnostic)	100G ZR DWDM	>16 dB/0.1 nm	-28 dBm OSNR >15.5 dB	5500 ps/nm	10 ps	N/A (host generated)	<1E-15



Ordering Information

Part No.	Data Rate	Host	Power Diss.	Link Budget	Connector	Temp.
Q.CO161HG.22.yTC	100GbE, OTU4	CMIS 5.2	<5.5W	21 dB	LC-Duplex	-5°C-70°C

Revision History

Revision	Release Date
V1	15.03.2026

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