

Q.CO161HG.30.yTC – Extended Datasheet

100G QSFP28 Coherent Tunable DWDM with FEC ZR+ with dual CDR
120 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	6 W (max) TBD (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	6 W (max) TBD (typ)
5.2	Transparent (NRZ agnostic)	OTL4.4 data rate	27.952	DP-DQPSK	Agnostic (NRZ)	Host generated	120 km unamplified 300 km amplified	6 W (max) TBD (typ)

All information is provided without warranty. Flexoptix GmbH reserves the right to make specification changes or discontinue products without explicit notice. Product illustrations are for illustrative purposes only and may differ from the actual product.



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	0 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	0 dBm	+10 dBm	-30 dBm to +3 dBm
Transparent (NRZ agnostic)	191.25 - 196.1 THz (C-band)	50 / 100 GHz	N/A	0 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 ZRE 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 ZRE 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 ZRE 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.30.yTC	100GbE, OTU4	CMIS 5.2	<6W	30 dB	LC-Duplex	0°C-70°C

Revision History

Revision	Release Date
V1	15.03.2026

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