

D.CO164HG.2.yT – Extended Datasheet

400G QSFP-DD Coherent Tunable DWDM with FEC ZR with dual CDR
120 km, C-Band, LC-Duplex, Singlemode

Link to product page: [D.CO164HG.2.yT](#)



Table 1 – General Parameter

CMIS Version	Application Code	Host Interface	Baud Rate [GBd]	Modulation	Bandwidth	FEC	Media Lane Reach	Power Consumption
5.1	AppCode 1	400GAUI-8	59.843	DP-16QAM	400GbE	cFEC	120 km (amplified)	19 W (max) TBD (typ)
5.1	AppCode 2	400GAUI-8	59.843	DP-16QAM	400GbE	cFEC	40 km (unamplified)	19 W (max) TBD (typ)
5.1	AppCode 3	400GAUI-8	59.843	DP-16QAM	400GbE	cFEC	120 km (amplified)	19 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 (adjustable)	Rx Overload	Rx Input Range
AppCode 1	191.3 - 196.1 THz (C-band)	100 GHz	3.125 GHz	-10 dBm to -6 dBm	+10 dBm	-12 dBm to 0 dBm
AppCode 2	193.7 THz (fixed)	N/A (single λ)	N/A (single λ)	-9 dBm to -6 dBm	+10 dBm	-20 dBm to 0 dBm
AppCode 3	191.3 - 196.1 THz (C-band)	75 GHz	3.125 GHz	-10 dBm to -6 dBm	+10 dBm	-12 dBm to 0 dBm

Table 3 – Coherent Parameter

Application Code	Coherent Standard	Rx OSNR Tolerance	Rx Sensitivity @ OSNR	CD Tolerance max @0.5 dB OSNR Penalty	DGD Max (PMD tolerance)	Pre-FEC BER Limit	Post-FEC BER
AppCode 1	400G ZR DWDM	>26 dB/0.1 nm	-12 dBm OSNR >26 dB	$\pm 2,400$ ps/nm	10 ps	$\sim 1.22E-2$	<1E-15
AppCode 2	400G ZR Grey, unamplified	>26 dB/0.1 nm	-20 dBm OSNR >34 dB	$\pm 1,200$ ps/nm	7 ps	$\sim 1.22E-2$	<1E-15
AppCode 3	400G ZR DWDM	>26 dB/0.1 nm	-12 dBm OSNR >26 dB	$\pm 2,400$ ps/nm	10 ps	$\sim 1.22E-2$	<1E-15



Ordering Information

Part No.	Data Rate	Link Type	Distance	Connector	Temp.
D.CO164HG.2.yT	425Gbit/s	SM	Depending of modulation	LC Duplex	Standard

Revision History

Revision	Release Date
V1	14.03.2026

Contact Information

Flexoptix GmbH

Tel: +49 (0) 6151 62904 - 0

Fax: +49 (0) 6151 62904 - 99

Email: info@flexoptix.net

Address: Mühlthalstraße 153

64297 Darmstadt

GERMANY

