

D.CO164HG.16.yTM – Extended Datasheet

400G QSFP-DD Multirate High-power Coherent Tunable DWDM with FEC ZR+ with dual CDR
480 km, C-Band, Tx 3dBm, LC-Duplex, Singlemode

Link to product page: [D.CO164HG.16.yTM](#)



Table 1 – General Parameter

CMIS Version	Application Code	Host Interface	Baud Rate [GBd]	Modulation	Bandwidth	FEC	Media Lane Reach	Power Consumption
5.0	AppCode 1	400GAUI-8	60.138	DP-16QAM	400GbE	oFEC	480 km (amplified)	22 W (max) TBD (typ)
5.0	AppCode 2	4x100GAUI-2	60.138	DP-16QAM	4x100GbE	oFEC	480 km (amplified)	22 W (max) TBD (typ)
5.0	AppCode 3	3x100GAUI-2	60.138	DP-8QAM	3x100GbE	oFEC	600 km (amplified)	22 W (max) TBD (typ)
5.0	AppCode 4	2x100GAUI-2	60.138	DP-QPSK	2x100GbE	oFEC	1,000 km (amplified)	22 W (max) TBD (typ)
5.0	AppCode 5	2x CAUI-4 (without FEC)	60.138	DP-QPSK	2x 100GbE (CAUI-4)	oFEC	1,000 km (amplified)	22 W (max) TBD (typ)
5.0	AppCode 6	2x CAUI-4 (with RS-FEC)	60.138	DP-QPSK	2x 100GbE (CAUI-4)	oFEC	1,000 km (amplified)	22 W (max) TBD (typ)
5.0	AppCode 7	1x100GAUI-2	30.069	DP-QPSK	1x100GbE	oFEC	2,000 km (amplified)	18 W (max) TBD (typ)
5.0	AppCode 8	1x CAUI-4 (without FEC)	30.069	DP-QPSK	1x 100GbE (CAUI-4)	oFEC	2,000 km (amplified)	18 W (max) TBD (typ)
5.0	AppCode 9	1x CAUI-4 (with RS-FEC)	30.069	DP-QPSK	1x 100GbE (CAUI-4)	oFEC	2,000 km (amplified)	18 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)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-12 dBm to 0 dBm
AppCode 2	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-12 dBm to 0 dBm
AppCode 3	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-15 dBm to 0 dBm
AppCode 4	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-18 dBm to 0 dBm
AppCode 5	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-18 dBm to 0 dBm
AppCode 6	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-18 dBm to 0 dBm
AppCode 7	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-18 dBm to 0 dBm
AppCode 8	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-18 dBm to 0 dBm
AppCode 9	191.3 - 196.1 THz (C-band)	75 GHz	6.25 GHz	-5 dBm to +5 dBm	+10 dBm	-18 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	>24 dB/0.1 nm	-24 dBm OSNR >24 dB	±12,000 ps/nm	20 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 2	4*100G ZR+ DWDM	>24 dB/0.1 nm	-24 dBm OSNR >24 dB	±12,000 ps/nm	20 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 3	3*100G ZR+ DWDM	>21 dB/0.1 nm	-26 dBm OSNR >21 dB	±20,000 ps/nm	25 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 4	2*100G ZR+ DWDM	>16 dB/0.1 nm	-28 dBm OSNR >16 dB	±30,000 ps/nm	25 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 5	2*100G ZR+ DWDM	>16 dB/0.1 nm	-28 dBm OSNR >16 dB	±30,000 ps/nm	25 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 6	2*100G ZR+ DWDM	>16 dB/0.1 nm	-28 dBm OSNR >16 dB	±30,000 ps/nm	25 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 7	1*100G ZR+ DWDM	>12.5 dB/0.1 nm	-32 dBm OSNR >12.5 dB	±50,000 ps/nm	30 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 8	1*100G ZR+ DWDM	>12.5 dB/0.1 nm	-32 dBm OSNR >12.5 dB	±50,000 ps/nm	30 ps	1.7E-2 – 2.0E-2	<1E-15
AppCode 9	1*100G ZR+ DWDM	>12.5 dB/0.1 nm	-32 dBm OSNR >12.5 dB	±50,000 ps/nm	30 ps	1.7E-2 – 2.0E-2	<1E-15

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Ordering Information

Part No.	Data Rate	Link Type	Distance	Connector	Temp.
D.CO164HG.16.yTM	425Gbit/s	SM	Depending of modulation	LC Duplex	Standard

Revision History

Revision	Release Date
V1	12.03.2026

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