

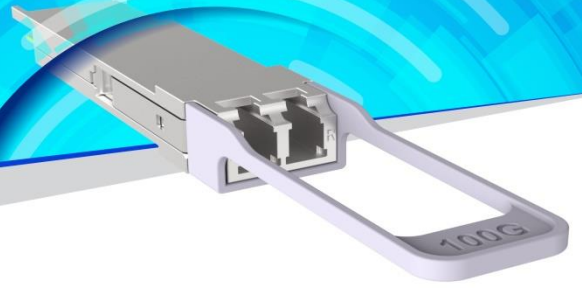
PRODUCT DETAILS

Eoptolink's 100G DWDM QSFP28 Optical Transceiver



EOLQ-161HG-O-W2XX5S Series

Single-Mode, 100G QSFP28
With LC interface



Product Description

Eoptolink's single-wavelength 100G QSFP28 DWDM pluggable optical transceivers, enabled by the nCP4™ Silicon Photonics Optical Engine platform, are designed for multiple channel 100GbE transmission up to 100km distance over standard G.652 single mode optical fibers (SMF). For short distances, e.g. below 2 kilometers, dispersion compensation is not required. For relative longer distances, EDFA and DCM are required to compensate the fiber link loss and fiber dispersion.

The transmitter side converts 4x25.78 Gbps CAUI-4 electrical signals to a single lane PAM4 optical signal. The module's optical interface utilizes a single wavelength on ITU-T 100GHz spacing DWDM grid, and the signal is compatible with standard 100GHz spacing DWDM filters. The module is Laser Class 1 compliant according to International Safety Standard IEC-60825. The receiver section uses a wideband PIN-PD detector and is DWDM channel independent. Digital diagnostics functions are available via the I2C interface as specified by QSFP28 MSA specification SFF-8636.

Features

- Single-wavelength 100 Gbps transmission
- nCP4™ Silicon Photonics Optical Engine
- Fixed wavelengths on 100GHz DWDM grid
- Compatible with standard 100GHz DWDM filters
- Up to 100km over SMF (with DCM and EDFA)
- Duplex LC connector
- PAM4 optical signal with integrated FEC
- 4x25.78 Gbps CAUI-4 host interface
- Compliant with QSFP28 MSA SFF-8636
- QSFP28 MSA digital monitoring functions

Applications

- 100GbE signal DWDM transmission



Ordering Information

Part No.	Data Rate	Fiber	Distance*2	Interface	Temp.
EOLQ-161HG-O-W2XX5S*1	100Gbps	SMF	100km	LC	0~+70°C

*1: XX refers to DWDM wavelength range as ITU-T specified, please refer the following table for detailed center wavelength information.

*2: Over SMF with EDFA & DCM.

*The product image is only for reference purpose.

XX-Channel refers to the following table

Channel (XX)	Part NO.	Frequency (THz)	Center Wavelength (nm)
21	EOLQ-161HG-O-W2215S	192.1	1560.61
22	EOLQ-161HG-O-W2225S	192.2	1559.79
23	EOLQ-161HG-O-W2235S	192.3	1558.98
24	EOLQ-161HG-O-W2245S	192.4	1558.17
25	EOLQ-161HG-O-W2255S	192.5	1557.36
26	EOLQ-161HG-O-W2265S	192.6	1556.55
27	EOLQ-161HG-O-W2275S	192.7	1555.75
28	EOLQ-161HG-O-W2285S	192.8	1554.94
29	EOLQ-161HG-O-W2295S	192.9	1554.13
30	EOLQ-161HG-O-W2305S	193.0	1553.33
31	EOLQ-161HG-O-W2315S	193.1	1552.52
32	EOLQ-161HG-O-W2325S	193.2	1551.72
33	EOLQ-161HG-O-W2335S	193.3	1550.92
34	EOLQ-161HG-O-W2345S	193.4	1550.12
35	EOLQ-161HG-O-W2355S	193.5	1549.32
36	EOLQ-161HG-O-W2365S	193.6	1548.51
37	EOLQ-161HG-O-W2375S	193.7	1547.72
38	EOLQ-161HG-O-W2385S	193.8	1546.92
39	EOLQ-161HG-O-W2395S	193.9	1546.12
40	EOLQ-161HG-O-W2405S	194.0	1545.32
41	EOLQ-161HG-O-W2415S	194.1	1544.53
42	EOLQ-161HG-O-W2425S	194.2	1543.73
43	EOLQ-161HG-O-W2435S	194.3	1542.94
44	EOLQ-161HG-O-W2445S	194.4	1542.14
45	EOLQ-161HG-O-W2455S	194.5	1541.35
46	EOLQ-161HG-O-W2465S	194.6	1540.56
47	EOLQ-161HG-O-W2475S	194.7	1539.77
48	EOLQ-161HG-O-W2485S	194.8	1538.98
49	EOLQ-161HG-O-W2495S	194.9	1538.19
50	EOLQ-161HG-O-W2505S	195.0	1537.40
51	EOLQ-161HG-O-W2515S	195.1	1536.61
52	EOLQ-161HG-O-W2525S	195.2	1535.82
53	EOLQ-161HG-O-W2535S	195.3	1535.04
54	EOLQ-161HG-O-W2545S	195.4	1534.25
55	EOLQ-161HG-O-W2555S	195.5	1533.47
56	EOLQ-161HG-O-W2565S	195.6	1532.68
57	EOLQ-161HG-O-W2575S	195.7	1531.90
58	EOLQ-161HG-O-W2585S	195.8	1531.12
59	EOLQ-161HG-O-W2595S	195.9	1530.33
60	EOLQ-161HG-O-W2605S	196.0	1529.55

Above table shows the 40 DWDM channels supported as standard products. Some wavelengths may have long lead times depending on the DWDM laser diode manufacturing plan.

Additional channels are available as customized products. For availability of additional wavelengths, please contact with Eoptolink.



Quality

Eoptolink Technology has passed many quality system verifications, established an internationally standardized quality assurance system and strictly implemented standardized management and control in the course of design, development, production, installation and service. For latest certification/accreditation numbers, please, contact us.



Notice

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Eoptolink Technology Inc., Ltd.

Add: No.127 West Wulian Street, Shuangliu District, Chengdu City 610213, P.R.China.

Tel: +86-028-6708 7983 (HQ); +86-028-6708 7999

Fax: +86-028-6708 7979

Email: sales@eoptolink.com

<http://www.eoptolink.com/>