

PRODUCT DETAILS

Eoptolink's 100G O-Band DWDM QSFP28 Optical Transceiver



EOLQ-161HG-O-25-XXX5S Series

Single-Mode, 100G QSFP28
With LC interface

Product Description

The EOLQ-161HG-O-25-XXX5S series single mode transceiver module is designed for multiple channel 100GbE transmissions for up to 25km distance over standard G.652 single mode optical fiber (SMF) . The transceiver operates at a data rate of 100Gbps at the nominal DWDM wavelength from 1295.56nm to 1312.58nm as specified by the CW-WDM MSA. This module can convert 4 channels of 25Gbps (NRZ) electrical input data to 1 channel of 100Gbps (PAM4) optical signal, and also can convert 1 channel of 100Gbps (PAM4) optical signal to 4 channels of 25Gbps (NRZ) electrical output data. The electrical interface of the module is compliant with the OIF CEI-28G-VSR and QSFP28 MSA. It is designed to deploy in the DWDM networking equipment in metropolitan access and core networks.

Features

- Supports 100Gbps
- O-Band DWDM with 200GHz channel spacing
- Aligned to 800GHz spacing LAN-WDM grid
- Single 3.3V Power Supply
- Power Dissipation < 5.5W
- Up to 25km over SMF with inbuild PFEC
- QSFP28 MSA Compliant
- SFF-8636 Rev 2.10a Compliant
- 4x25G Electrical Interface
- LC Duplex Connector
- Commercial Case Temperature Range of 0°C to 70°C
- I²C Interface with Integrated Digital Diagnostic Monitoring
- Safety Certification: TUV/UL/FDA*1
- RoHS Compliant

Applications

- 100GbE multiple channel transmissions using O-Band DWDM wavelengths



Ordering Information

Part No.	Data Rate	Fiber	Distance* ³	Interface	Temp.
EOLQ-161HG-O-25-XXX5S* ²	100Gbps	SMF	25km	LC	0~+70°C

*1: For the latest certification information, please check with Eoptolink.

*2: XXX refers to O-Band DWDM wavelength range as CW-WDM MSA specified, please refer the following table for detailed center wavelength information.

*3: Over G.652 SMF.

XXX-Channel refers to the following table

Lane	Part NO.	Frequency (THz)	Center Wavelength (nm)
L-4	EOLQ-161HG-O-25-CCD5S	231.4	1295.56
L-3	EOLQ-161HG-O-25-CCE5S	231.2	1296.68
L-2	EOLQ-161HG-O-25-CCF5S	231.0	1297.80
L-1	EOLQ-161HG-O-25-CCG5S	230.8	1298.93
L0	EOLQ-161HG-O-25-CCH5S	230.6	1300.05
L1	EOLQ-161HG-O-25-CCI5S	230.4	1301.18
L2	EOLQ-161HG-O-25-CCJ5S	230.2	1302.31
L3	EOLQ-161HG-O-25-CCK5S	230.0	1303.45
L4	EOLQ-161HG-O-25-CCL5S	229.8	1304.58
L5	EOLQ-161HG-O-25-CCM5S	229.6	1305.72
L6	EOLQ-161HG-O-25-CCN5S	229.4	1306.85
L7	EOLQ-161HG-O-25-CCP5S	229.2	1308.00
L8	EOLQ-161HG-O-25-CCQ5S	229.0	1309.14
L9	EOLQ-161HG-O-25-CCR5S	228.8	1310.28
L10	EOLQ-161HG-O-25-CCS5S	228.6	1311.43
L11	EOLQ-161HG-O-25-CCT5S	228.4	1312.58

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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