

PRODUCT DETAILS

Eoptolink's 100G DWDM QSFP28 Optical Transceiver



EOLQ-161HG-O-02XX5S1 Series

Single-Mode, 100G QSFP28

With LC interface

Product Description

The EOLQ-161HG-O-02XX5S1 series single mode transceiver module is designed for use in duplex optical data communications. This module is designed for single mode optical fiber and operates at a data rate of 100Gbps at the nominal DWDM wavelength from 1529.55nm to 1560.61nm as specified by the ITU-T. 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
- Available in all C-Band Wavelengths on the 100GHz DWDM ITU Grid
- Single 3.3V Power Supply
- Power Dissipation < 5.5W
- 80km reach over SMF with EDFA&DCM (dispersion compensation modules)
- 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

- 100G Amplified DWDM networks
- Data center interconnects



Ordering Information

| Part No. | Data Rate | Fiber | Distance* ³ | Interface | Temp. |
|------------------------------------|-----------|-------|------------------------|-----------|---------|
| EOLQ-161HG-O-02XX5S1* ² | 100Gbps | SMF | 80km | LC | 0~+70°C |

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

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

*3: Over SMF with EDFA&DCM.

XX-Channel refers to the following table

| Channel (XX) | Part NO. | Frequency (THz) | Center Wavelength (nm) |
|--------------|----------------------|-----------------|------------------------|
| 21 | EOLQ-161HG-O-02215S1 | 192.1 | 1560.61 |
| 22 | EOLQ-161HG-O-02225S1 | 192.2 | 1559.79 |
| 23 | EOLQ-161HG-O-02235S1 | 192.3 | 1558.98 |
| 24 | EOLQ-161HG-O-02245S1 | 192.4 | 1558.17 |
| 25 | EOLQ-161HG-O-02255S1 | 192.5 | 1557.36 |
| 26 | EOLQ-161HG-O-02265S1 | 192.6 | 1556.55 |
| 27 | EOLQ-161HG-O-02275S1 | 192.7 | 1555.75 |
| 28 | EOLQ-161HG-O-02285S1 | 192.8 | 1554.94 |
| 29 | EOLQ-161HG-O-02295S1 | 192.9 | 1554.13 |
| 30 | EOLQ-161HG-O-02305S1 | 193.0 | 1553.33 |
| 31 | EOLQ-161HG-O-02315S1 | 193.1 | 1552.52 |
| 32 | EOLQ-161HG-O-02325S1 | 193.2 | 1551.72 |
| 33 | EOLQ-161HG-O-02335S1 | 193.3 | 1550.92 |
| 34 | EOLQ-161HG-O-02345S1 | 193.4 | 1550.12 |
| 35 | EOLQ-161HG-O-02355S1 | 193.5 | 1549.32 |
| 36 | EOLQ-161HG-O-02365S1 | 193.6 | 1548.51 |
| 37 | EOLQ-161HG-O-02375S1 | 193.7 | 1547.72 |
| 38 | EOLQ-161HG-O-02385S1 | 193.8 | 1546.92 |
| 39 | EOLQ-161HG-O-02395S1 | 193.9 | 1546.12 |
| 40 | EOLQ-161HG-O-02405S1 | 194.0 | 1545.32 |
| 41 | EOLQ-161HG-O-02415S1 | 194.1 | 1544.53 |
| 42 | EOLQ-161HG-O-02425S1 | 194.2 | 1543.73 |
| 43 | EOLQ-161HG-O-02435S1 | 194.3 | 1542.94 |
| 44 | EOLQ-161HG-O-02445S1 | 194.4 | 1542.14 |
| 45 | EOLQ-161HG-O-02455S1 | 194.5 | 1541.35 |
| 46 | EOLQ-161HG-O-02465S1 | 194.6 | 1540.56 |
| 47 | EOLQ-161HG-O-02475S1 | 194.7 | 1539.77 |
| 48 | EOLQ-161HG-O-02485S1 | 194.8 | 1538.98 |
| 49 | EOLQ-161HG-O-02495S1 | 194.9 | 1538.19 |
| 50 | EOLQ-161HG-O-02505S1 | 195.0 | 1537.40 |
| 51 | EOLQ-161HG-O-02515S1 | 195.1 | 1536.61 |
| 52 | EOLQ-161HG-O-02525S1 | 195.2 | 1535.82 |

| | | | |
|----|----------------------|-------|---------|
| 53 | EOLQ-161HG-O-02535S1 | 195.3 | 1535.04 |
| 54 | EOLQ-161HG-O-02545S1 | 195.4 | 1534.25 |
| 55 | EOLQ-161HG-O-02555S1 | 195.5 | 1533.47 |
| 56 | EOLQ-161HG-O-02565S1 | 195.6 | 1532.68 |
| 57 | EOLQ-161HG-O-02575S1 | 195.7 | 1531.90 |
| 58 | EOLQ-161HG-O-02585S1 | 195.8 | 1531.12 |
| 59 | EOLQ-161HG-O-02595S1 | 195.9 | 1530.33 |
| 60 | EOLQ-161HG-O-02605S1 | 196.0 | 1529.55 |



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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