eoptolink®

EOLQ-161HG-40-LX Series

Single-Mode, 100G QSFP28
With LC interface
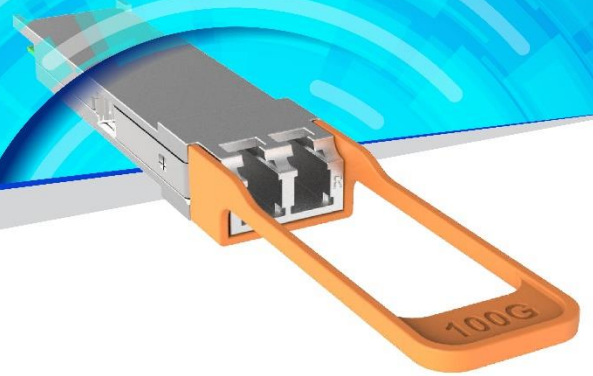
Product Description

Eoptolink's EOLQ-161HG-40-LX 100Gbps QSFP28 transceiver module is designed for optical communication applications in 100 Gigabit Ethernet links over 40km single mode fiber. This product converts 4 channels of 25Gbps (NRZ) electrical input data to 4 channels of 25Gbps (NRZ) LAN-WDM optical signals. Reversely, on the receiver side, 4 channels of LAN-WDM optical signals of 25Gbps (NRZ) converts to 4 channels of 25Gbps (NRZ) electrical output data. The central wavelengths of 4 channels are members of the frequency grid for 100 GHz spacing and above defined in ITU-T G.694.1 and are spaced at 800 GHz. And per channel operating at 25Gbps. The electrical interface of the module is compliant with the CAUI-4 interface as defined by IEEE 802.3bm, and the form factor, optical/electrical connection and digital diagnostic interface compliant with QSFP28 MSA and 100G 4WDM-40 MSA.

Features

- Supports 103Gbps
- Single 3.3V Power Supply and Power dissipation
  Standard: <4W
  Industrial: < 5W
- Up to 40km over SMF with FEC on host
- RoHS-6 compliant (lead-free)
- Operating case temperature range of
  Standard: 0°C to 70°C
  Industrial: -40°C to 85°C
- Four 25Gbps Cooled DFB LAN-WDM lasers on transmitter side
- APD and TIA array on the receiver side

- 4x25G electrical interface
- Duplex LC receptacles
- I^{2}C interface with integrated Digital Diagnostic Monitoring
- Safety Certification: TUV/UL/FDA[1]
- RoHS Compliant

Applications

- 100G 40km applications with FEC on host side
- 100G Datacom& Telecom connections

Ordering Information

Part No.	Data Rate	Fiber	Distance[2]	Interface	Temp.	DDMI
EOLQ-161HG-40-L	103Gbps	SMF	40km	LC	0~+70℃	Yes
EOLQ-161HG-40-LI	103Gbps	SMF	40km	LC	-40~+85℃	Yes

*1: For the latest certification information, please check with Eoptolink.
*2: Over G.652 SMF.
*The product image is only for reference purpose.

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

Eoptolink reserves the right to make changes or discontinue any optical link product or service identified in this publication, without notice, in order to improve design and/or performance. Applications that are described herein for any of the optical link products are for illustrative purposes only. Eoptolink makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

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