

## PRODUCT DETAILS

Eoptolink's 800G QSFP-DD Optical Transceiver



# EOLD-138HG-02-xMx

Single-Mode, 800G, 8x100G QSFP-DD  
With MPO-16 interface

## Product Description

Eoptolink's QSFP-DD 8x100Gbps transceiver module can be used for 800 Gigabit Ethernet connections over 2km of single-mode fiber. The module includes eight parallel channels with a central wavelength of 1310nm, and the operating rate of each channel is 106.25Gbps. These 8-channel PAM4 parallel optical signals can be converted into 8-channel PAM4 electrical output signals; and there are 8 independent electrical input/output channels, which can convert PAM4 electrical input data into 8-channel PAM4 parallel optical signal. The transmitter of the module includes a bi-directional PAM4 re-timer ASIC with an 8-channel modulator driver and 8 EML Lasers. The receiver uses 8 photodiodes and two 4-channel TIA arrays, as well as the PAM4 re-timer. The electrical interface of the module is compliant with the 800GAUI-8 interface as defined by IEEE 802.3ck, and compliant with QSFP-DD MSA.

## Features

- Supports 850Gbps
- Single 3.3V Power Supply
- Up to 2km over SMF with KP4 FEC supported at the Host side
- MPO-16 connector
- 8x106.25Gbps (PAM4) electrical interface
- PIN and TIA array on the receiver side
- Power dissipation < 17W
- Case temperature range: 0°C to 70°C
- Safety Certification: TUV/UL/FDA\*1
- RoHS Compliant

## Applications\*1

- 8x100G Ethernet
- 2x400G Ethernet
- 1x800G Ethernet



## Ordering Information

Part No.	Data Rate	Fiber	Distance*2	Interface	Temp.	DDMI	CMIS
EOLD-138HG-02-xMx*1	850Gbps	SMF	2km	MPO-16	0~70°C	Yes	CMIS5.0*3

\*1: For more details, please contact with Eoptolink.

\*2: Over G.652 SMF.

\*3: CMIS5.0 or later version.

## 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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