eoptolink®

EOLO-138HG-10-xMx

800G, 8×100G, OSFP
With MPO-16 interface

Product Description

Eoptolink's OSFP transceiver module is designed for use in 800 Gigabit Ethernet links over 10km 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 OSFP MSA.

Features

- Supports 850Gbps
- Single 3.3V Power Supply
- Up to 10km 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 < 16W
- Case temperature range: 0°C to 70°C (commercial)

- Safety Certification: TUV/UL/FDA[1]
- RoHS Compliant

Applications[1]

- 1x800G Ethernet
- 2x400G Ethernet
- 2x200G Ethernet

Ordering Information

Part No.	Data Rate	Fiber	Distance[2]	Interface	Temp.	DDMI	CMIS
EOLO-138HG-10-xMx[1]	850Gbps	SMF	10km	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

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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