

800G QSFP-DD/OSFP LPO Transceiver Family

Product Description

Eoptolink/Alpine's 800G Linear-drive Pluggable Optics (LPO) transceiver family is designed for use in 800G links and covers a wide range of module types, such as 800G OSFP/QSFP112-DD DR8, 2xFR4, AOC, and so on. The 800G LPO transceivers only use linear drivers on the TX side and trans-impedance amplifiers (TIA) on the RX side. DSP/CDR ASICs are not required inside the transceivers.

The 800G LPO transceivers show excellent performance in 800G switches and are suitable for high-bandwidth optical interconnections for AI/ML systems due to their low power consumption and low latency characteristics.



Features

- Support optical links from 0 to 500m (DR8) and 2km (2xFR4) over SMF
- Support OSFP and QSFP112-DD form factors
- DR8 (or 2xDR4) support both dual MPO-12 and MPO-16 connectors
- Triple Rate operation: 106.25Gbps (PAM4), 53.125Gbps (PAM4), 25.78125Gbps (NRZ)
- Silicon Photonics based transmitter
- PIN and TIA array on the receiver side
- Low latency less than 1ns
- Low power dissipation < 8.0W
- Case temperature range: 0°C to 70°C

Applications

- 1x800GbE, 2x400GbE, 4x200GbE, 8x100GbE

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