

# Inquiry about LPO optical module 400G



## Overview

The 400G-FR4-LPO specification by the LPO (Linear Pluggable Optics) MSA defines a four-wavelength 100 Gb/s/lane, 53.125 GBd, PAM4 optical interface using standard single-mode fiber with reach up to at least 500 m, and host-module electrical interfaces for hosts with DSP based SerDes and RS(544,514). COPENHAGEN, Denmark, Sept. 25, 2025 (GLOBE NEWSWIRE) — ECOC2025 - The LPO MSA (Linear Pluggable Optics Multi-Source Agreement) Group announced today the completion and availability of the 100 Gb/s per lane Linear Pluggable Optics 400G-FR4-LPO Single-Mode Optical Data Transmission specification. Delivering diverse, innovative optical transceiver solutions tailored to the needs of ai datacenter and telecommunications customers. Actively advancing optical modules that incorporate the latest opto-electronic conversion technologies to meet the demands of AI-computing networks. Continuing to. This product is a 400Gb/s QSFP112 optical module designed for 0.5Km optical communication applications. The module converts 4 channels of 100Gb/s (PAM4) electrical input data to 4 channels of parallel optical signals, each capable of 100Gb/s operation for an aggregate data rate of 400Gb/s. We offer transceivers for DR4, SR4 and FR4 interfaces. Our

vertical integration for optical engines enables leading performance and per consumption.

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An optical fiber cable with an MTP/MPO-12 connector can be plugged into the QSFP112 DR4 module receptacle. Host FEC is required to support up to 0.5Km fiber transmission.



QSFP112 DR4 LPO Hyper Silicon TM Optical Transceiver The Hyper Photonix HSQ4-400-LP-C2S transceiver is designed for 400G Ethernet and InfiniBand communication application links over 500m ...



Adding the 400G-FR4-LPO physical medium specification supports the LPO MSA's goal of enabling broad market adoption of linear pluggable fiber optic links. The specification defines the ...



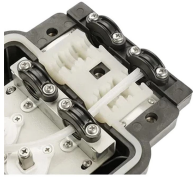
The new standard defines a 100 Gb/s per lane single-mode optical data transmission format using four wavelength-division multiplexed (WDM) lanes, extending linear pluggable optics to ...



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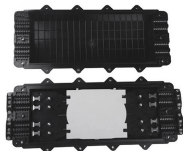
Eoptolink QSFP112 400G LPO transceivers are compliant to the latest releases of the QSFP112 MSA. The firmware supports CMIS 5.0 and newer release. We offer transceivers for DR4, SR4 and FR4 ...



400G optical modules are high-speed transceivers using PAM4 modulation and multi-lane architectures to enable ultra-high bandwidth connectivity. They are essential for AI clusters, ...



The LPO optical module performs transmit and receive functions that convey analog signals between the host and the medium. Its electrical interfaces are based on OIF CEI-112G ...



Experience the future with our 400G LPO QSFP112, integrating Linear-Drive Technology for unparalleled short-range, high-bandwidth, and low-latency performance. Say goodbye to complex ...

## Contact Us

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