

The LPO MSA develops electrical and optical interoperability specifications for a diversity of high-density networking equipment and pluggable optical modules based on LPO technology

Every module from Swedish Telecom Opto is thoroughly tested before shipping and comes with a full warranty. If it's in your BOM, it's in our lab -- verified and pre-programmed to match your exact ...

According to the LPO MSA, an LPO solution offers power savings for optical interconnect by removing the digital signal processing (DSP) function from the pluggable optical module.

On the right-hand side, a retimed optical module is illustrated consisting out of a DSP and an optical engine. The DSP inside the module has a SerDes facing the host ASIC.

The STC-40028 from Swedish Telecom Opto's LPO Series is a high-performance 800 Gb/s QSFP-DD SR8 optical transceiver optimized for short-reach, high-bandwidth data-centre and AI workloads.

How is LPO different from DSP-based optics? LPO removes the DSP from the module, letting the host ASIC handle signal processing - resulting in lower power, lower latency, and simpler thermal design.

Silicon photonics reduces power consumption in both LRO and LPO modules by integrating optical components directly on silicon chips. Traditional optical modules require separate components for ...

Our optical modules feature traditional DPO, low-power LRO, LPO, and Active Loopback designs for testing, and support data rates from 10G up to 1.6T across a wide range of package types.

Our LPO transceivers support 400G and 800G applications in QSFP and OSFP form factors. They bring all the efficiency and performance benefits of LPO to data center operators, while integrating ...

Leveraging LPO technology, the module provides ultra-low-latency, power-efficient optical links tailored for AI, high-performance computing, and hyperscale data center applications.

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