

# **Nordic Linear Drive Pluggable Optics 400G**



## Nordic Linear Drive Pluggable Optics 400G



LPO (Linear Pluggable Optics) transceivers lack full retiming (DSP) circuitry that is common in all prior generations of 400G, 800G and 1.6T optical modules. As a result, LPO relies on the host to handle ...



Half-Retimed Linear Optics creates an easier composite channel, allowing greater margin and robustness Shorter electrical Establishing compliant interfaces allows multiple vendors to ...



As a transmitter quality metric, TDECQ should correlate with final link performance. o Inherent problem for linear drive systems: reference receiver is different from linear receiver. o Increased difference if ...



The specification defines the necessary optical and electrical requirements for a robust ecosystem of LPO-compatible switch, NIC and module products leveraging WDM infrastructure.



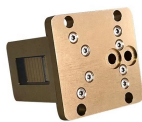
Equipment and electrical serdes can evolve through 3 generations (25 Gb/s, 50 Gb/s or 100 Gb/s) without changing the optical interface that interconnects your equipment.



Linear Pluggable Optics (LPO) for AI. DSP-free 800G & 400G modules reducing power by 50% and latency by 75%. The ideal choice for machine learning clusters.



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 ...



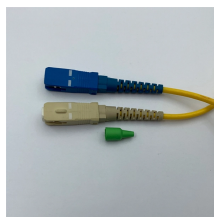
The 400G-FR4-LPO specification provided in this document is optimized for data-center specific needs and broadly maintains interoperability with standard 100G per lane DSP based LR ...



Linear Drive Pluggable Optics (LPOs) have gained tremendous attention during 2023 and this document attempts to de-mystify the terminology. The focus is on 400G and 800G LPOs using 56GBd lanes.



LPO Series — EU-Tested Low-Power Optical Transceivers Next-generation 400G and 800G modules for data centers, AI clusters, and telecoms — validated in a European lab, ready to ship from Europe.



y are Macom, Semtech and Maxlinear. The main advantages offered by LPO are reduced power consumption and lower system latency due to the absence of the DSP. and reducing the operational ...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.indzawo.co.za>

Email: [sales@indzawo.co.za](mailto:sales@indzawo.co.za)

Phone: +27 71 296 8473

Address: 22 Quantum Street, Midrand, 1685, Gauteng, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

