

Ethiopian-branded LPO optical core router



AI Overview

Ethiopia's WebSprix is deploying high-speed optical core networks using Cisco 8000 series routers with LPO-compatible optics, enabling low-latency, energy-efficient broadband services. LPO Technology Overview Linear Pluggable Optics (LPO) are optical transceivers that remove the DSP (digital signal processor) from the module, relying instead on high-linearity drivers and transimpedance amplifiers (TIAs) for analog signal processing, while the host ASIC handles digital functions. This architecture provides several advantages: Lower Power Consumption: Eliminating the DSP reduces module power by approximately 30–50%. Reduced Latency: Fewer processing steps allow faster signal transmission, critical for AI/ML clusters and high-performance computing. Cost Efficiency: Removing expensive DSP components lowers the bill of materials by 20–40%. Thermal Management: Less heat is generated inside the module, improving reliability and density in data centers. LPO modules are optimized for short-range intra-data-center links and require host devices with strong analog front-end capabilities to maintain signal integrity.

Ethiopian Network Context Ethiopia, WebSprix, an IT solutions provider, is deploying Cisco Routed Optical Networking solutions using Cisco 8200 series routers with 400 GbE ZR/ZR+ coherent optics, which are compatible with LPO principles. This deployment aims to: Converge IP and optical layers into a simpler, operationally efficient network. Enable high-speed broadband, IPTV, and voice services at lower cost. Reduce the number of network devices, enhancing resiliency and fiber capacity utilization. Serve as a model for connecting underserved populations, addressing Ethiopia's limited fixed broadband penetration. The LPO-compatible optics allow long-distance fiber connections to terminate directly on the router, eliminating the need for a separate optical layer w...

Article Content

Linear Drive Pluggable Optics

Eoptolink offers a full portfolio of LPO optics for OSFP, OSFP-RHS, QSFP-DD and QSFP112 transceivers. At ECOC 2023, Eoptolink will be conducting an interop demo to highlight

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800G LPO

P O LPO addresses the power issue LPO offers significantly lower latency LPO allows for best link performance LPO offers lower cost LPO still need an ecosystem

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Moreover, Huawei routers are well-suitable for cloud-based applications, including scalability, high bandwidth connectivity, easy O& M, easy deployment, and high performance with low power

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Huawei F5G-A Optical Communication Empowers EEP's Digital Transformation This network upgrade is not only a leap forward in communication technologies, but

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Ethiopian OEM Active Optical Devices 1 6T

The 1.6T 2xDR4/DR8 optical module is a high-speed optical transceiver compliant with the IEEE 802.3dj standard, designed for medium- to short-distance transmission in 1.6T Ethernet.

LightCounting :: Optics for AI: 800G, 1.6T, LRO/LPO

Genuine Optics presented its first data on operation of 200G per lane optics for applications in 1.6T LPO. It suggests power savings of 20W in

OIF_PLL_Demo_promo-Eoptolink

Eoptolink'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,

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Optical Interconnect Technology Analysis: LPO, NPO,

Exploring optical interconnects for AI data centers: LPO for low-power, short-distance links, NPO for high-density, near-package connections,

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Linear pluggable optics for data centers

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Contact Us

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