

Compatible 100G Linear Drive Pluggable Optical Namibian Supplier



Overview

The GIGALIGHT 100G QSFP28/SFP-DD Single Lambda pluggable optical transceiver modules support 100G Ethernet data rate.

Key Takeaways

100G linear drive pluggable optical modules, including LPO and single-lambda 100G optics, are widely available globally and can be sourced through authorized distributors or regional partners in Namibia. Overview of 100G Linear Pluggable Optics

Linear Pluggable Optics (LPO) are designed to optimize power, cost, and latency by removing the DSP function from the module while maintaining interoperability across electrical and optical interfaces. The 100G-DR-LPO specification supports 100 Gb/s per lane using PAM4 modulation over single-mode fiber with up to 500 meters reach, and is compatible with QSFP, QSFP-DD, and OSFP form factors. These modules are ideal for data center leaf-spine networks, metro, and short-reach applications. Cisco single-lambda 100G optics provide multiple reach options:

- 100G DR: 500m, ideal for intra-data center links.
- 100G FR: 2 km over duplex SMF, suitable for co-location facilities.
- 100G LR: 10 km, for inter-building or core network connections.



- 100G ER-Lite: 20–25 km, for extended reach in core or aggregation networks . These modules are forward-compatible, allowing gradual upgrades to 400G host platforms without replacing existing optics.

Key Features

- High port density and low power consumption for data centers.
- Support for multiple lanes (1, 2, 4, or 8) for scalable bandwidth.
- Interoperability with IEEE 802.3 and OIF CEI-112G-LINEAR-PAM4 standards.
- Form factors: QSFP, QSFP-DD, OSFP.
- Modulation: PAM4 for 100G per lane.
- Reach: 500m to 25 km depending on module type.

Sourcing in Namibia

While no specific Namibian suppliers are listed in the web results, you can source 100G linear drive pluggable optics through:

- Authorized global distributors with regional shipping to Namibia, such as Cisco, Marvell, or other OEM partners .
- Local IT and networking resellers in Namibia who partner with global vendors.
- Regional African distributors in South Africa or neighboring countries that supply optical transceivers to Namibia. When sourcing, ensure the modules are LPO or single-lambda 100G compliant, match the required form factor, and support the desired reach and lane configuration.

Recommendations

- Verify compatibility with your host equipment (switches, routers, or servers).
- Confirm warranty and support from the distributor.
- Consider future-proofing by selecting modules that allow gradual upgrades to 400G or higher speeds.
- Check for multi-source agreements (MSA) compliance to ensure interoperability across vendors. By following these guidelines, you can procure 100G linear drive pluggable optical modules suitable for Namibian deployments while ensuring performance, reliability, and scalability.

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Linear Drive Pluggable Optics refers to modular optical networking components that are easily interchangeable, designed to enhance

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The Linear Drive Pluggable Optics Market has emerged as a critical segment within the broader optical communication

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Linear Pluggable Optics – An Overview

Summary Marvell, Alphawave, and Innolight. These systems, spanning 100G to 200G per lane, highlight advances in analog

Linear Drive Pluggable Optics

The advantage of Linear pluggable optics is the lower power consumption and lower latency. The module power consumption gets

Single-Lambda 100G Pluggable Optics Solution Overview

It shows what goes into today's 100G QSFP28 pluggable optical modules. Notice that they are inherently four-channel

Linear Drive Pluggable Optics

Our 2 x 100G modules use Duplex CS connectors, boasting a 40 percent size reduction from Duplex LC. They are compliant with the

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