

Zambian GPON equipment SFP



Overview

Zambian SFP Optical Router | WillisCreek Networks (WCN)Zambian SFP Optical Router
WillisCreek Networks (WCN) supplies complete FTTH solutions: ODN products.

Key Takeaways

GPON SFP modules in Zambia are available from local suppliers like LTS Group, WillisCreek Networks, and ICT Shop, supporting FTTH, FTTB, and enterprise fiber deployments.Overview of GPON SFP Modules

SFP (Small Form-factor Pluggable) modules are compact, hot-pluggable transceivers used to connect network devices such as OLTs, ONUs, switches, and routers to fiber optic cables. In GPON networks, SFPs are critical for enabling high-speed data transmission over optical fiber, supporting distances typically ranging from 10 km to 20 km depending on the class (B+, C+) and wavelength (1310 nm upstream, 1490 nm downstream) of the module . Cisco GPON SFPs, for example, are compatible with ME Series OLT devices and consume up to 1.9W per port. They are designed for various FTTx scenarios including FTTH, FTTB, FTTC, and FTTN, and support both class B+ and C+ optical parameters .

Local Suppliers in Zambia

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LTS Group supplies a wide range of fiber optic products including GPON and EPON SFP modules, fiber cables, patch panels, and testing equipment. They provide turnkey solutions from design to installation and maintenance, covering point-to-point and point-to-multipoint networks .

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WillisCreek Networks (WCN) offers complete FTTH solutions including OLT/ONU/ONT devices, GPON/EPON equipment, optical distribution boxes, and SFP modules. Their SFPs are compatible with enterprise routers and support high-speed fiber connections for both residential and business applications .

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ICT Shop – HAMMS Engineering stocks SFP modules along with fiber connectors, patch panels, and other fiber components suitable for GPON deployments .

Technical Considerations

When selecting GPON SFP modules in Zambia, consider:

- **Compatibility:** Ensure the SFP module matches the OLT/ONU vendor and GPON standard (e.g., ITU-T G.984 B+ or C+).
- **Distance and Power Budget:** Class B+ modules typically support up to 20 km, while C+ modules can reach longer distances with higher optical power.
- **Environmental Conditions:** Some SFPs are rated for industrial temperature ranges and DIN-rail mounting for outdoor or harsh environments .
- **Network Type:** Choose modules based on whether the deployment is FTTH, FTTB, or enterprise P2P.

Conclusion

Zambian GPON SFP modules are readily available through local distributors like LTS Group, WillisCreek Networks, and ICT Shop, offering a variety of options for residential, business, and industrial fiber networks. These modules support standard GPON deployments, are compatible with major OLT/ONU devices, and come with specifications suitable for distances up to 20 km or more depending on the class of the SFP .

Article Content

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Zambian SFP Optical Router WillisCreek Networks (WCN) supplies complete FTTH solutions: ODN products, PLC splitters, optical

Equipment Supply

At LTS Group we offer a complete line of competitive and cost effective fibre optic products from the top brand manufacturers. This

GPON SFP Transceiver

Sopto provide professional GPON solutions, including SFP GPON ONU Transceiver. We have an efficient logistics that we will

GPON SFP Modules Explained: Types, Applications, and Benefits

What is a GPON SFP Module? GPON SFP (Gigabit Passive Optical Network Small Form-Factor Pluggable) modules

GPON SFP Transceivers in Detailed Introduction

GPON SFP is the optical module applied in OLT and ONT or ONU for passive optical networks. Read on to have a

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

