

Article Overview

Certified OLT SFP modules in Ghana support GPON, XGS-PON, and 10G PON deployments for FTTH and enterprise networks.

Overview of OLT SFP Modules

An Optical Line Terminal (OLT) SFP is a small form-factor pluggable module that enables fiber-to-the-home (FTTH) or fiber-to-the-anything (FTTx) services by connecting passive optical networks (PON) to central office or hub equipment. These modules are compatible with GPON, XGS-PON, and 10G EPON standards, allowing service providers to deliver high-speed broadband to multiple subscribers from a single OLT chassis .

Key Specifications

- o Capacity: Many OLT SFPs support up to 128 ONUs, 1024 T-CONTs, and 4096 GEM ports, with distances up to 60 km for GPON deployments .
- o Interfaces: Uplink interfaces often support HSGMII, SGMII, or GBIC modes, with AC-coupled transmit and receive data lines .
- o Power and Environmental Tolerance: Typical modules operate at 3.3V $\pm$ 5%, with temperature and voltage tolerances suitable for indoor and outdoor deployments .
- o Deployment Flexibility: Modules can be used in central offices, edge nodes, or distributed network environments, supporting both indoor and outdoor installations .

Local Availability in Ghana

Certified OLT SFP modules are available through local distributors and online marketplaces such as Jiji Ghana, which lists over 49 fiber optic networking products, including GPON and XGS-PON OLTs . Vendors like Ascent Communication Technology and FS.com provide datasheets and technical support for modules suitable for Ghanaian network conditions .

Advanced Options

- o 10G SFP+ OLT Modules: For higher bandwidth requirements, modules like Harmonic Fin 10G SFP+ can transform Ethernet switch ports or DOCSIS devices into OLTs, supporting 10G symmetric PON and remote configuration for scalable deployments .
- o Software-Defined OLTs: Modern OLTs, such as Adtran's SDX 6000 Series, offer disaggregated access devices with support for multiple PON standards, enabling flexible network scaling and future-proofing .

Recommendations

When selecting an OLT SFP in Ghana:

- o Verify PON standard compatibility (GPON, XGS-PON, 10G EPON).
- o Check environmental ratings for indoor/outdoor deployment.
- o Confirm local vendor support for installation, configuration, and maintenance.
- o Consider scalability for subscriber growth and network expansion. These modules are essential for building reliable, high-speed fiber networks in urban, suburban, and rural areas of Ghana, ensuring efficient broadband delivery to end users.

Superxon GPON OLT SFP transceivers, compliant with SFP MSA, support single-fiber bi-directional data

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Ubiquiti UFiber UF-OLT GPON Optical Line Terminal. 8 x GPON SFP Ports. 2 SFP+ Ports. Up to 20 km Link. 2.488 Gbps Upstream

OLT (Optical Line Terminal) types represent crucial components in modern fiber optic networks, serving as the endpoint hardware

Ubiquiti UFiber OLT Overview With eight GPON SFP ports and two SFP+ ports, the UF-OLT 8-Port GPON Optical Line Terminal

In optical fibre technology, one of the most widely used devices is an optical line terminal,

In today's rapidly evolving optical networking landscape, GPON (Gigabit Passive Optical Network) technology stands

The HW GPON OLT SFP C++++ Module is a high-performance optical transceiver designed for integration into GPON Optical Line

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A gigabit passive optical network (G-PON) comprises optical line terminals (OLTs) and optical network units (ONUs), and Murata's

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OLT (Optical Line Terminal) optical transceiver, serving as the core optical component in a Passive Optical Network (PON) system,

Explore what an OLT (Optical Line Terminal) is, its role in FTTH networks, and a detailed comparison between market

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Optical line terminals, also called optical line terminations (OLTs), serve as endpoints for passive optical networks (PONs). They

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