

Article Overview

10G OLTs support high-speed fiber access via XGS-PON, 10G-EPON, or GPON, with management agents enabling remote configuration, monitoring, and integration with ONTs.

10G OLT Options and Features

Adtran SDX 6000 and Total Access 5000 Series: These OLTs support 10G Combo PON, XGS-PON, GPON, and 10G-EPON standards. They are designed for high-speed connectivity and flexible service delivery, with software-defined capabilities for remote management and scaling to multiple applications and services .

Harmonic Fin 10G SFP+ OLT Module: This compact module can transform Ethernet switch ports or DOCSIS DAA devices into a 10G OLT. It supports XGS-PON and 10G-EPON, allows remote configuration, and can be deployed as a central office OLT or Remote OLT (R-OLT). It integrates with Harmonic's cOS Broadband Platform and virtual BNG for converged DOCSIS and PON service delivery .

PLANET GPL-8000 GPON OLT: Equipped with four 10G SFP+ uplink ports and multiple GPON ports, this OLT supports dual-speed 10GBASE-SR/LR or 1GBASE-SX/LX connections. It provides Layer 3 routing, VLAN, dynamic bandwidth allocation, and SLA management, making it suitable for large-scale FTTx deployments .

FS OLT Devices: FS offers a range of GPON, EPON, and XG(S)PON OLTs suitable for high-speed fiber networks. These devices are compatible with various ONUs and provide flexible deployment options for service providers .

Management and Agent Capabilities

10G OLTs typically include software agents or management interfaces that allow:

- o Remote configuration of PON ports and ONTs/ONUs
 - o Monitoring of bandwidth usage, split ratios, and service quality
 - o Integration with network management systems (NMS) for automated provisioning
 - o Support for Layer 2/3 features, VLANs, and QoS policies
 - o Firmware updates and diagnostics without physical access
- For example, Harmonic's Fin OLT module provides a software-based agent for remote configuration and monitoring, enabling operators to manage XGS-PON or 10G-EPON deployments efficiently . Similarly, Adtran and PLANET OLTs offer management interfaces compatible with SNMP, CLI, or web-based NMS platforms.

Integration with ONTs

10G OLTs are designed to work with 10G-capable ONTs, such as Cisco 10G Routed PON ONTs, which support symmetrical 10-Gbps downstream and upstream connectivity. These ONTs connect via SC/APC optical connectors and integrate with OLTs for end-to-end high-speed fiber service delivery .

Summary

When selecting a 10G OLT agent or management solution, consider:

- o PON standard compatibility (XGS-PON, 10G-EPON, GPON)
- o Remote management capabilities (software agents, NMS integration)
- o Port density and uplink speed (10G SFP+ support)
- o Integration with ONTs/ONUs for end-to-end service delivery
- o Layer 2/3 features and QoS support for enterprise or residential deployments These features ensure efficient deployment, monitoring, and scaling of high-speed fiber networks.

In modern communication networks, optical line terminal (OLT) is the core device to realize point-to-multipoint

Huawei SmartAX MA5683T OLT Description: The Huawei SmartAX MA5683T OLT is an advanced and versatile Optical Line

The ISCOM6860 is a high-density carrier-grade Optical Line Terminal (OLT) platform. It offers EPON, 10G EPON, GPON, XGS

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