

OLT Optical Line Terminal 40G



Article Overview

40G-capable OLTs are high-performance optical line terminals designed for next-generation PON networks, supporting NG-PON2, XGS-PON, and GPON standards with scalable, redundant, and SDN-integrated architectures.

Key Features of 40G OLTs

High-Speed PON Support: Modern 40G OLTs, such as the Tellabs FlexSym OLT6, support multiple PON standards including G-PON (2.5G), XGS-PON (10G symmetrical), and NG-PON2 (40G), allowing seamless upgrades from legacy networks to next-generation high-speed fiber access networks . **Scalability and Port Density:** These OLTs are modular and scalable. For example, the OLT6 can accommodate 4 multi-purpose plug-in card slots, supporting 4 to 32 PON ports, and Ethernet Switch Unit slots for 1G to 10G uplinks, enabling flexible deployment in both mid-sized and large-scale networks . **Redundancy and High Availability:** 40G OLTs are designed for continuous operation with features like dual AC power inputs, redundant power rectifiers, redundant Ethernet Switch Units, common controls, fans, and network uplinks. Failover and card-swapping can occur in less than 50ms without service interruption, ensuring high reliability . **Deployment Flexibility:** These OLTs can be installed in data centers, communications closets, or outdoor remote cabinets, supporting both 19" and 23" rack brackets. Their compact and modular design makes them suitable for space-constrained environments . **SDN Integration and Smart Aggregation:** Next-generation 40G OLTs often include software-defined networking (SDN) capabilities, enabling dynamic network management, traffic optimization, and integration with intelligent aggregation systems for versatile network applications . **Multi-Service Support:** 40G OLTs manage data, voice, and video services, perform d...

Article Content

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What is OLT (Optical Line Terminal)? Types, Features & Applications

The full form of OLT is optical line terminal, which is a device used to connect the optical fiber and transfer signals. It's

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Fiber OLT 8

Eight-port GPON optical line terminal (OLT) designed to manage fiber internet service for up to 1,024 clients (128 per port).

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H3C S7500X-G Series Optical Line Terminal (OLT)

The uplink supports multiple access rates including 100G, 40G, 25G, 10G, and GE. The S7500X-G OLT can achieve simultaneous

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Optical Line Terminals

FlexSym Optical Line Terminal Two (OLT2) Jan 14, 2025 The Tellabs FlexSym® OLT2 Optical Line Terminal is a

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XGPL-16000

High-Performance 16-Port XGS-PON OLT with 40G/100G Uplink Capability PLANET XGPL-16000 is a high-density 16-Port XGS

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Optical line terminals

At the heart of a point-to-multi-point or passive optical network (PON) is the optical line terminal (OLT). Modern OLTs offer

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Guide to Optical Line Terminal (OLT) Classifications: Detailed Types ...

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

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OLT Buying Guide 2026 | How to Choose Optical Line Terminal for FTTH

An Optical Line Terminal (OLT) is the core device in a Passive Optical Network (PON). Located at the service provider

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The Tellabs FlexSym BOLT Optical Line Terminal is a multi-purpose Optical Line Terminal (OLT) enabling

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What is an OLT? Complete Guide to Optical Line Terminal

Conclusion The Optical Line Terminal (OLT) is the foundation of modern fiber optic networks. It supports high-speed

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What's the OLT (Optical Line Terminal)?

In short: The OLT (Optical Line Terminal) is the central control unit of a Passive Optical Network (PON). It converts data signals,

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Read the Key Functions of the Optical Line Terminal (OLT)

Optical Line Terminals (OLTs) are a crucial component of Passive Optical Networks (PONs) and are used by service

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The latest optical line termination (OLT) solutions for 2024

Optical line termination (OLT) equipment on the market now Vendors of OLT equipment include Adtran, which provides OLT

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Fiber OLT : what is an Optical Line Terminal ? 2026

OLT (Optical Line Terminal): definition, architecture, components and FTTH applications. Complete guide with

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FlexSym Optical Line Terminal Six (OLT6)

The Tellabs FlexSym® Optical Line Terminal Six (OLT6) distribution shelf is designed for mid-sized enterprise deployments. The

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OLT (Optical line terminal) | G-PON (Gigabit passive

A gigabit passive optical network (G-PON) comprises optical line terminals (OLTs) and optical network

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Optical line termination

An optical line termination (OLT), also called an optical line terminal, is a device which serves as the service provider endpoint of a

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OLT Types: Comprehensive Guide to Optical Line Terminal Solutions

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

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40G-OCDMA-PON network architecture with optical line terminal (OLT ...

40G-OCDMA-PON network architecture with optical line terminal (OLT), optical network unit (ONU), and remote node (RN).

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OLT, Optical line terminal

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

Contact Us

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