

Optical Line Terminal Parameters



Article Overview

OLT parameters define the performance, capacity, and compatibility of Passive Optical Networks, impacting data rates, coverage, and service quality.

Overview of OLT

An Optical Line Terminal (OLT) is the central device in a Passive Optical Network (PON) that connects the service provider's backbone to multiple customer endpoints. It converts electrical signals into optical signals, manages bandwidth, and coordinates communication with Optical Network Units (ONUs) or Optical Network Terminals (ONTs) at subscriber sites. OLTs are deployed at central offices or distribution points and can support various PON standards such as GPON, EPON, XG-PON, and XGS-PON.

Key OLT Parameters

1. Optical Transceiver Specifications

OLT transceivers are critical for signal transmission and reception. Key parameters include :

- **Form Factor:** Determines physical interface and compatibility. Common types are SFP, SFP-DD, and SFP+ (20 or 22 pins), supporting different data rates and port densities.
- **Data Rate:** Defines upstream and downstream speeds. For example, EPON supports 1.25 Gbps symmetric, GPON supports 2.5 Gbps downstream and 1.25 Gbps upstream, while XGS-PON supports 10 Gbps symmetric.

Article Content

Optical Line Terminal(OLT)

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

Detailed Explanation of Key Parameters for OLT Optical transceivers

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

Defining OLT: Optical Line Terminal

Defining OLT: Optical Line Terminal Definition under: Definitions What is a Optical Line Terminal (OLT)? An Optical Line Terminal

ONT Optical Parameter

Overview of ONT Optical Parameter The ONT Optical Parameter feature allows you to configure thresholds of the optical transmit

Detailed Explanation of Key Parameters for OLT Optical transceivers

This article systematically introduces the main categories and technical characteristics of OLT optical transceivers from four

ITU-T G Suppl. 71 (12/2023) Optical line termination capabilities for ...

This Supplement considers the use of cooperative dynamic bandwidth assignment (CO DBA) in a passive optical network (PON)

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

What's the OLT (Optical Line Terminal)?

Optical Line Terminal Overview What is an OLT? Definition: An Optical Line Terminal (OLT), also called an Optical Line Termination,

Optical Line Terminal (OLT)

Optical Line Terminal or optical line termination is a device that basically acts as a part of a passive optical network (PON). It is

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

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

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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