

OLT Optical Module Technical Specifications



Article Overview

OLT optical modules, particularly GPON SFP transceivers, typically support 2.5Gbps downstream, 1.25Gbps upstream, single-fiber bi-directional links, and hot-pluggable SFP form factors.

Key Specifications

Data Rates and Transmission: GPON OLT modules generally support downstream speeds of 2.5Gbps and upstream speeds of 1.25Gbps, enabling high-bandwidth fiber access for multiple clients per port . **Port Types and Compatibility:** Modules are available in SFP (Small Form-factor Pluggable) format, compliant with the latest SFP MSA standards. They support single-fiber bi-directional transmission, allowing both TX and RX over a single fiber. OLT devices may include multiple GPON ports, GE combo ports, GE SFP ports, and 10GE SFP+ ports for flexible network deployment . **Distance and Coverage:** Typical GPON OLT modules can cover distances up to 20 km between the OLT and ONUs (Optical Network Units), making them suitable for FTTH (Fiber-to-the-Home) and FTTB (Fiber-to-the-Building) deployments . **Power and Sensitivity:** Modules operate at 3.3V and often use high-sensitivity APD (Avalanche Photodiode) receivers to ensure reliable signal detection over long distances . **Hot-Pluggable and Management Features:** Most OLT optical modules are hot-pluggable, allowing easy replacement or upgrades without shutting down the system. OLT devices typically include management ports (MGMT) and CLI ports for configuration and monitoring . **Client Capacity:** A single GPON port can support up to 128 clients, with multi-port OLTs supporting up to 1,024 clients in total, depending on the device configuration...

Article Content

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In modern fiber-optic networks, temperature management remains one of the most overlooked yet critical factors affecting optical line

ZTE C600 Optical Line Terminal (OLT) Product Overview and

routing (NSR) for zero packet loss during upgrades. Technical Specifications: The following table summarizes the key hardware and

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

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

MA5801 | OLT | FTTH | Huawei Enterprise

The MA5801 series OLT is a compact and low-density box-shaped OLT. It provides multiple fiber to the home (FTTH) solutions to

Detailed Explanation of Key Parameters for OLT Optical transceivers

Selecting an OLT optical transceiver requires comprehensive consideration of multiple technical indicators, including form factor,

SmartAX MA5800 Datasheet

The industry's first 40 Gbit/s-capacity Next-Generation Optical Line Terminal (NG-OLT). Huawei's SmartAX MA5800 multiple-service

White Paper on 50G PON Technology V2.0

The ODN connecting the OLT and ONUs uses optical fibers and passive components to avoid electromagnetic interference, effects

Huawei Genuine H902GPHF Board for MA5800 OLT Price

HuaTelecom offers Huawei Genuine H902GPHF Board for MA5800 OLT with competitive pricing; 3-5 days global delivery, 1-Year

OLT Types: Comprehensive Guide to Optical Line Terminal Solutions

Explore different OLT types, their features, and benefits for modern fiber optic networks. Learn about GPON, EPON, and XGS-PON

ZTE GPON OLT B+ Optical Transceiver: Full Technical Guide

Comprehensive Technical Analysis of ZTE GPON OLT B+ Optical Transceivers for Next-Gen FTTH Networks As the global demand

ZTE GPON OLT B+ Optical Transceiver: Full Technical Guide

At the heart of this infrastructure lies the ZTE GPON OLT B+ optical transceiver, a critical component that bridges the gap between

ZTE C600 Optical Line Terminal (OLT) Product Overview and Technical ...

- Carrier-Grade Reliability: Full redundancy for power, fans, and control modules, plus hardware-based Type B/C protection switching

8-Port GPON OLT with 4 × Gigabit Combo, 4 × 1G SFP and 4 × 10G

Overview OLT3610-08GP4S GPON Optical Line Terminal (OLT) consists of 8× GPON ports, 4× GE COMBO ports, 4× GE SFP

UISP Fiber OLT

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

Defining OLT: Optical Line Terminal

An Optical Line Terminal (OLT) is a fundamental element within optical communication networks, serving as a hub that facilitates the

Contact Us

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