

EPON OLT (optical line terminal) is a device that acts as the service provider endpoint of a passive optical network. It connects to the Ethernet switch and ONU.

Downstream (1490nm wavelength): The OLT transmits optical signals in broadcast mode to all ONTs. Each ONT extracts its own data packets based on a unique identifier.

In the upstream direction, the 1G service and 10G service bearer wavelengths partially overlap, but because different ONUs send signals at different time slices, the OLT is guaranteed.

An EPON system uses the single-fiber wavelength division multiplexing (WDM) technology (with downlink central wavelength of 1490 nm and uplink central wavelength of 1310 nm) to implement ...

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This wavelength allocation is specified in industry standards to deploy lower-cost optical components on the multi-point ONU side, reducing overall PON network deployment costs.

Comprehensive guide to Passive Optical Networks (PON), covering OLT, ODN, ONU/ONT, GPON/XGS-PON/NG-PON2 standards, deployment strategies, and FTTH network ...

EPON operates at working wavelengths of 1490nm and 1310nm, mirroring GPON. These wavelengths facilitate downlink and uplink communications, supporting the transmission of data and ...

EPON in a single fiber using WDM technology, the upper and lower rows of data streams are transmitted in different frequency bands. Among them, is the downstream 1490nm, upstream 1310nm, 1550nm ...

Narrowing the options: eliminate potentially problematic 1350 nm With OLT DML, too much dispersion for ONU EDC? Some DMLs don't perform as well at 1350 nm It's a new wavelength, and some ...

The Optical Line Terminal (OLT) is the central component of this network. This guide aims to clarify an EPON OLT, how it works, and why many internet service providers turn to it as ...



EPON device OLT downlink wavelength

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