

How many gigabits Gbps is the communication speed of the OLT optical module



Overview

It supports downstream bandwidths of up to 10 Gbps and upstream bandwidths of 10 Gbps, enabling fast and reliable data transmission. With a coverage range of up to 20km between equipment nodes, the OLT-2XGS is a cost-effective access technology that offers flexibility for network. This document describes the Gigabit Passive Optical Network (GPON) technology and how it functions. There are no specific requirements for this document. A simple optical splitter is sufficient to achieve connectivity. Longer Transmission Distance:. OLT devices can be categorized based on transmission rates, including EPON OLT, GPON OLT, XGPON OLT, and XGSPON OLT. EPON OLT, built on Ethernet compatibility, typically delivers a transmission rate of 1 Gbps. GPON OLT, utilizing Gigabit Passive Optical Network technology, features an upstream rate. GPON (Gigabit Passive Optical Network) — As a modern fiber broadband access technology that extends all the way to the “last mile,” GPON does not require active node devices at the optical split point. It conforms to international standards like ITU-T G. It can

provide a 20 km reach with a 28dB optical budget (shown in the following illustration) by using class B+ optics with 1:32 split ratio. GPON system supports the.

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This advanced module supports GPON standards and delivers impressive data transmission speeds of up to 2.5 Gbps, making it an essential component for modern network ...



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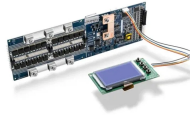
Offers 2.5 Gbps downstream and 1.25 Gbps upstream bandwidth. Widely used for standard broadband internet access. Also known as NG-PON1, delivers 10 Gbps downstream and 2.5 Gbps upstream, ...



How It Works: A central Optical Line Terminal (OLT) connects to many homes and businesses through passive splitters and Optical Network Terminals (ONTs). Why It Matters: GPON provides up to 2.5 ...



XG-PON (10G-PON) XG-PON enhances GPON by offering downstream speeds of up to 10 Gbps and upstream speeds of 2.5 Gbps. This increased bandwidth is ideal for high-density areas ...



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Higher Bandwidth Capacity: For each user, GPON can deliver 2.5 Gbps downstream and 1.25 Gbps upstream at the physical layer.



GPON OLTs support speeds up to 2.5 Gbps downstream and 1.25 Gbps upstream, while EPON OLTs deliver symmetrical 1 Gbps speeds. The more advanced XGS-PON OLTs provide symmetrical 10 ...



Features & Benefits Supports ITU-T G.984.2 GPON OLT C+ application Single fiber bi-directional data links with symmetric 2.488Gbps Tx and 1.244Gbps Rx 1490nm continuous-mode transmitter with ...



Fiber offers internet and telecom service providers a cost-effective fiber optic delivery system for Triple Play Services (data, voice, IPTV/VoD) with speeds of up to 2.488 Gbps downstream and 1.244 Gbps ...



Learn how GPON ONU (ONT) and GPON OLT enable high-speed fiber optic communication. Discover their roles, advantages (20 km range, 2.5 Gbps ...



The 10 Gbit/s shared capacity is the downstream speed broadcast to all users connected to the same PON, and the 2.5 Gbit/s upstream speed uses multiplexing techniques to prevent data frames from ...



In XGS-PON systems, optical transceivers serve as the optical-electrical converters between the OLT and ONU that make high-speed data ...



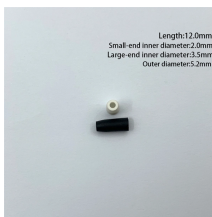
This document describes the Gigabit Passive Optical Network (GPON) technology and how it functions.



GPON provides maximum speeds typically 2.488 Gbps downstream and 1.244 Gbps upstream. This bandwidth is shared amongst end users, resulting in broadband access speeds ...



The GigaPoint® GP4200AH optical network terminal is an outdoor rated, 2.5 Gbps GPON and 1.0 Gbps Active Ethernet (AE) service delivery terminal providing one 2.5 Gigabit Ethernet (GE) interface and ...



ITU-T has defined a PON technology: the Gigabit-capable Passive Optical Network (GPON) to support digital communication to end customers at rates up to 2.4 Gbps downstream (from network to ...



A GPON OLT is an Optical Line Terminal device compliant with GPON international standards, operating at 1.25 Gbps upstream / 2.5 Gbps downstream rates, and utilizing corresponding GPON ...

Contact Us

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