

What bandwidth does an epon device support



Overview

This setup supports symmetrical speeds up to 1Gbps or higher, ensuring low latency and high bandwidth. EPON, or Ethernet Passive Optical Network, is a fiber-optic network standard that uses Ethernet packets to deliver high-speed data, voice, and video services. As a key player in the FTTH (Fiber to the Home) revolution, EPON enables cost-effective, scalable internet access by leveraging passive. The PON technology has the following benefits:

- High bandwidth The 10G PON OLT can provide a maximum bandwidth of 10Gbps downstream and 10Gbps upstream for the ONU.
- Long distance access It can support a transmission distance up to 20km.

Characterized by its simple architecture, low equipment requirements, and energy. A typical APON/BPON provides 622 megabits per second (Mbit/s) (OC-12) of downstream bandwidth and 155 Mbit/s (OC-3) of upstream traffic, although the standard accommodates higher rates. It has many advantages such as high bandwidth, high efficiency, large coverage and rich user interface. EPON is an Ethernet-based PON technology.

Article Content

EPON (Ethernet passive optical network)

Bandwidth: EPON can provide symmetrical upstream and downstream bandwidth of up to 1 Gbps per subscriber, while GPON can provide a maximum of 2.5 Gbps downstream and 1.25 Gbps

A Comprehensive Guide to GPON and EPON Technologies in PON

In contrast, EPON offers symmetrical downstream and upstream bandwidth, each at 1 Gbps. Consequently, GPON theoretically supports higher data transmission rates than EPON.

A Comprehensive Guide to GPON and EPON Technologies in PON

Combining the strengths of PON and Ethernet technologies, EPON features low cost, high bandwidth, scalability, compatibility with existing Ethernet, and easy management, making it a

EPON (Ethernet passive optical network)

Introduction: Ethernet Passive Optical Network (EPON) is a fiber-optic access technology that is designed to provide high-bandwidth, reliable and cost-effective broadband services to both

GPON vs. EPON

GPON provides the unprecedented high bandwidth downlink rate of up to 2.5 Gbit/s, the asymmetric features better adapt to the broadband data services market. GPON provides the QoS full business

Contact Us

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