

PON equipment used in GPON networks



Overview

GPON uses passive optical network (PON) is a access in which a single optical fiber from a central location is shared by multiple end users through one or more in series (cascaded). Unlike traditional fiber connections, PON systems distribute optical signals from an (OLT) to many (ONUs) or (ONTs) without requiring active electronic equipment in the distribution network. The absenc. A PON takes advantage of (WDM), using one wavelength for downstream traffic and another for upstream traffic on a (ITU-T, typically OS2). BPON, EPON, GEAPON, and have the same basic wavelength plan and use the 1490 nanometer (nm) wavelength for downstream traffic and 1310 nm wavelength for upstream traffic. 1550 nm is reserved for optional overlay services, typically RF (analog) video.

Article Content

Passive optical network

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A PON takes advantage of wavelength-division multiplexing (WDM), using one wavelength for downstream traffic and another for upstream traffic on a single mode fiber (ITU-T G.652, typically OS2). BPON, EPON, GEAPON, and GPON have the same basic wavelength plan and use the 1490 nanometer (nm) wavelength for downstream traffic and 1310 nm wavelength for upstream traffic. 1550 nm is reserved for optional overlay services, typically RF (analog) video.

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