

Upstream and downstream optical cables



Overview

GPON adopts WDM to transmit data of different upstream/downstream wavelengths over the same ODN. Wavelengths range from 1290 - 1330 nm in the upstream direction and from 1480 - 1500 nm in t.



Upstream and downstream optical cables



Data transmission from the OLT to the ONU is defined as downstream, while transmission from the ONU to the OLT is upstream; full-duplex transmission is adopted for both ...



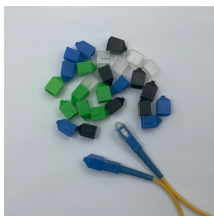
Cable modems have what is known as asymmetrical speeds because upstream and downstream capabilities are different. Your computer is capable of downloading data two to three times faster ...



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OLTs normally support up to 72 ports. An ONU connects to end users and will send their signals back to the OLT. A GPON network can reach up to 20 km and provide service up to 64 end users. GPON ...



The concept of the Long-Reach Optical Access Network (LROAN) is to replace the optical/electrical/optical conversion that takes place at the local exchange with a continuous optical ...



One wavelength is for downstream data transmission while another carries upstream data. These dedicated wavelengths vary depending on the PON standard in use.



Asynchronous communication at 2.5 Gbps downstream and 1.25 Gbps upstream. Over time, several GPON-based technologies have emerged, increasing communication speeds and altering the ...



A PON system utilizes a passive optical splitter that takes one input and splits it to "broadcast" signals downstream to many users. This reduces the cost of the system substantially by sharing one set of ...



Each flavor of PON uses a different wavelength pair (one in upstream, one in downstream) to transmit data. The wavelengths are specified by international standards and stretch from 1260 to 1600 nm.



Defined by ITU-T G.984 (GPON), G.9807 (XGSPON), and IEC 60794 cable standards, the ODN forms the physical optical path responsible for signal distribution, splitting, protection, and ...

Contact Us

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