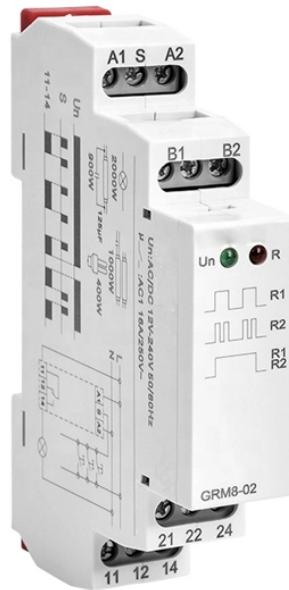


Passive Optical Networks Based on ATM



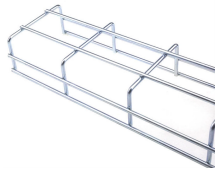
Overview

GPON is abbreviation for Gigabit Passive Optical Networks which is defined series G. For many years, passive optical networks (PONs) have received a considerable amount of attraction regarding their potential for providing broadband connectivity to almost every citizen, especially in remote areas where fiber optics can attract people to populate regions that have been abandoned. These networks show a point-to-multi-point topology and an important characteristic is that there isn't any active component that requires powering in the outside plant. As shown in the following image, it comprises of Optical Line Terminal (OLT), Optical Network Unit and Passive Optical Splitter.

Passive Optical Networks Based on ATM



Passive Optical Networks, either APONs or EPONs, are among the most attractive options to solve the existing bottleneck in the access network. Compared to other solutions, PONs ...



In the field of wired solutions, Passive Optical Networks (PON) look very promising due to their bandwidth capacity. Also called APONs (ATM over PON), PON systems are designed in ...



GPON is abbreviation for Gigabit Passive Optical Networks which is defined series G.984.1 through G.984.6 by ITU-T recommendation. Gigabit Passive Optical Networks can be ...



ATM Passive Optical Networks (PONs) This tutorial discusses the economics, operator and customer benefits, and technological development of optical distribution networks with ATM PONs.



System design options such as the downstream and upstream bit rates, the sharing factor and the multiplexing technique used for the bidirectional transport of ATM cells are discussed.



Passive optical network A fiber optic cable assembly with SC APC connectors, as commonly used to link optical network terminals to passive optical networks A passive optical network (PON) is a fiber-optic ...



A new generation of access networks is necessary for the provision of broadband services. ATM Passive Optical Networks (APON) are considered as a promising alternative among other numerous ...



This article presents ATM-based transport on passive optical networks, starting with a current implementation of an ATM-PON (APON) system that has already been installed for various trials.



A passive optical network built on ATM technology represents the first standard of a passive optical network that was approved by ITU in 1998. The entire standard was built on ATM ...

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