

GPON Doctor OLTe



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Features

Flexibility

Fully configurable OLT, allowing the reception and report of events, messages and alarms linked to the responses to each of the OMCI messages sent to the ONUs.

Not only it does act as OMCI master, but it also supports the generation of PLOAM messages to perform different tests at GTC level (Enable and configure GEM OMCC port, password authentication tests, etc.)

KEY FEATURE

OLT emulation

GPON Doctor OLTe is capable of emulating commercial OLTs behaviors. It allows building specific provisioning models and configuring OMCI entities individually and sequentially

High performance

- 802.1ad, 802.1Q and 802.1p compliant to support different VLAN scenarios from BBF TR-156.
- Provides complete control of all PON parameters.
- Implements DBA Algorithm, supporting all modes.
- Allows FEC coding in both directions.
- 128-bit AES encryption.
- IGMP snooping supported.
- Multicast filtering.

Capture and replay

Captures done by any of the GPON Doctor network analysers can be injected in the OLT emulator to replicate a PON behavior.

Drag&Drop

A graphical interface allows the creation of entity/relationship in an easy and visual way. This E/R can be uploaded in the OLTe to configure the ONUs.

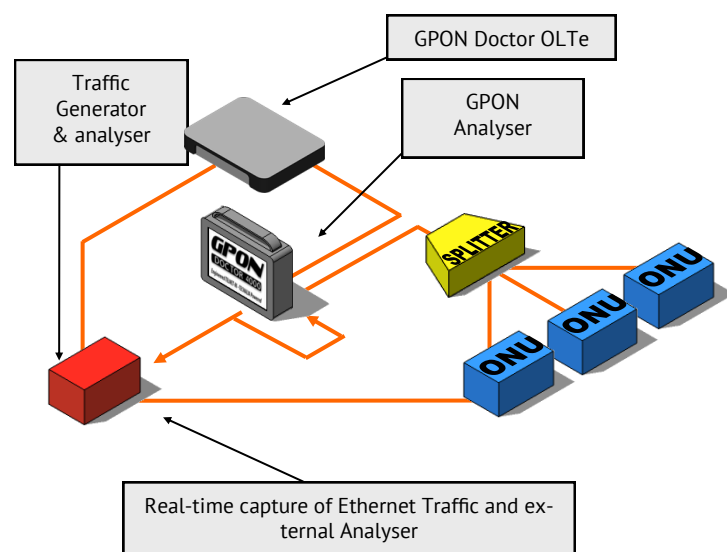
Description

GPON Doctor OLTe is an OLT oriented for ONT/ONU compliance and network interoperability tests, being the reference tool for lab engineers engaged in GPON pre-deployment phase as well as for GPON network equipment vendors. It is the perfect companion for the GPON Doctor 2000 / 4000, since it converts the captures obtained using the GPON Doctor 2000 / 4000 into scripts, allowing the emulation of commercial OLT behaviors.

As OLT emulator, it is a completely flexible tool, which allows configuring many different provisioning models as desired. OMCI messages can be sent individually or grouping several of them in scripts.

Since it offers complete control of all parameters of the PON, it is the perfect tool to test ONUs during the production chain or for auditing the ONUs replaced at customer's premises.

GPON Doctor OLTe permits to emulate step-by-step all the configuration parameters. This feature, combined with the GPON Doctor 2000 / 4000, allows achieving a deeper understanding of the GPON protocol.



User traffic emulation

Application examples

Interoperability troubleshooting among different vendor's equipment coexisting in a Telco access network

Diagnosis and analysis of events and deviations for already deployed GPON networks

Evaluation of protocol compliance during the development of GPON ONUs

Rogue and underperforming ONU's detection

Interfaces

1x SFP GPON ports. B+ and C+ transceivers available

1x SFP+ 10G for transport which allows 100% of GPON BW usage

4x GbE 10/100/1000Base-T RJ45

1x 10/100 Ethernet management port

1xUSB console interface

Power supply (220V/AC) and power button

Technical Features

Meets the requirements of ITU-G984.3

Support for managing entities defined in ITU-T G.988

OMCI creation of messages using programmable templates

Individual OMCI messages sending. TCL scripts for multiple OMCI messages and OLT configuration

OMCI master behavior

Generation and forwarding of Ethernet traffic encapsulated in GEM frames

Reception of asynchronous events and alarms from the ONUs

PLOAM messages generation to activate and configure a detected ONU

Simultaneous management and monitoring of multiple ONUs

Error injection and GEM encapsulation manipulation

Supports 802.1 ad, 802.1Q and 802.1p

Other characteristics

Size: 202 x 278 x 44.45 mm / 1.5Kg

Rack-mounting pieces are optional

Operating temperature: 0 to +50°C

Easy to carry form factor

Ordering information

Name: GPON Doctor OLTe

Reference: 400040141



Contact Information

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