

# Technical Data Sheet

## 4 Port L3 GEPON OLT with Broadcom Chipset



Product Code: NTPL-EPNOLT410G

### Product Overview

EPON OLT NTPL-EPNOLT410G completely meet relative standards of IEEE 802.3x and FSAN. The equipment is a 1U rack-mounted device, providing 1 USB interface, 4 uplink GE ports, 4 uplinkSFP ports, 2 10-gigabit uplink ports and 4 EPON ports. Single port supports 1:64 splitting ratio. System support 256 EPON terminals accessing in for the most.

This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, is convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving reliability and reducing power consumption in the perspective of access network and enterprise network and is applicable to three-in-one broadcast television network, FTTP (Fiber to the premise), video monitoring network, enterprise LAN (Local Area Network), internet of things and other network applications with a very high price/performance ratio.

## Features

- Meet IEEE 802.3x standard and relative EPON standards of Chinese Communication Industry
- **Support OAM remote management for ONT/ONU, compatible with IEEE 802.3x OAM Protocol**
- 1U height 4PON OLT product in compact design of Pizza-Box
- **Layer 2 Switching Function**

OLT equips with very powerful layer 2 Full Wire Speed Switching and completely supports layer 2 protocol. OLT supports varieties of layer 2 functions like TRUNK, VLAN, rate limit, port isolate, queue technology, flow control technology, ACL and so on, which provides technical guarantee for the development of multi-service integrated.

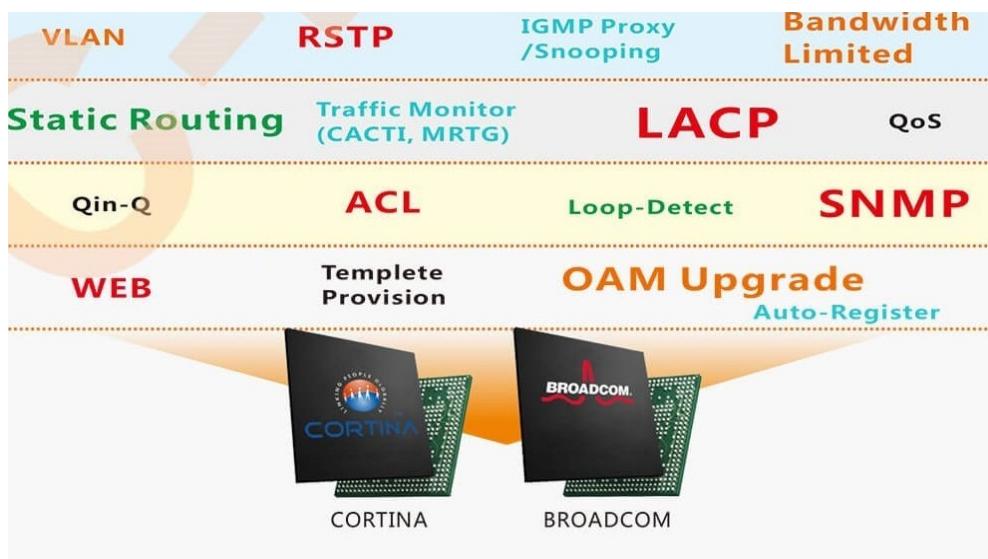
- **QoS Guarantee**

It can provide various QoS for EPON system, which can meet different QoS requirements for delay, jitter, and packet loss rate of different service flows.

- **Easy-to-Use Management System**

Support management method of CLI, WEB, SNMP, TELNET, SSH and meet OAM standard, through OAM channel protocol service management can be realized, including ONT function parameter set, Qos parameters, configuration information request, performance statistics, auto-reporting of running events in system, configuration for ONT from OLT, fault diagnosis and management of performance and safety.

### Abundant Function



## Technical Specification

Item		
Chassis	Rack	1U 19-inch standard box
Uplink Port	QTY	10
	Copper	10/100/1000M auto-negotiable, RJ45:4pcs
	Optical interface	4 GE
	10Gb uplink interface	2*10Gb
PON Port	QTY	4
	Physical Interface	SFP Slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	0.086111111
USB Port	QTY	1
	Connector Type	Type-C
	Function	Similar to the CONSOLE port function, used for serial port login
Management Ports		1*100BASE—TX out band port; 1 CONSOLE port
PON Port Specification	Transmission Distance	20KM
	PON port speed	Symmetrical 1.25Gbps
	Wavelength	1490nm TX,1310nm RX
	Connector	SC/PC
	Fiber Type	9/125μm SMF
	TX Power	+2.5~+7dBm
	Rx Sensitivity	-27dBm
	Saturation Optical Power	-6dBm
10Gb SFP+ Port Specification	Transmission Distance	10KM
	PON port speed	8.5-10.51875Gbps
	Wavelength	1310nmTX, 1310nmRX
	Connector	LC
	Fiber Type	Single mode with dual fiber
	TX Power	-8.2~+0.5 dBm
	Rx Sensitivity	-12.6dBm
Management Mode		SNMP, CLI,Web management mode.
Management Function		Fan Group Detecting Port Status monitoring and configuration management; Layer-2 switch configuration such as Vlan, Trunk ,RSTP,IGMP ,QOS, etc; EPON management function: DBA ,ONU authorization, ACL ,QOS ,etc;

		<p>Online ONU configuration and management</p> <p>User management</p> <p>Alarm management</p>
Layer-two Switch		<p>Support port Vlan and protocol Vlan</p> <p>Support Vlan tag/Untag ,vlan transparent transmission;</p> <p>Support 4096 VLAN</p> <p>Support 802.3dd trunk</p> <p>RSTP</p> <p>QOS based on port ,VID,TOS and MAC address</p> <p>IGMP Snooping and proxy</p> <p>802.x flow control</p> <p>Port stability statistic and monitoring</p>
EPON Function		<p>Support port-based rate limitation and bandwidth control;</p> <p>In compliant with IEEE802.3ah Standard</p> <p>Up to 20KM transmission Distance</p> <p>Support data encryption, group broadcasting, port Vlan separation, RSTP, etc.</p> <p>Support Dynamic Bandwidth Allocation (DBA)</p> <p>Support ONU auto-discovery/Link detection/remote upgrade of software;</p> <p>Support VLAN division and user separation to avoid broadcast storm;</p> <p>configuration .Different user and different service could provide different QoS by means of different LLID channels.</p> <p>Support power-off alarm function ,easy for link problem detection</p> <p>Support broadcasting storm resistance function</p> <p>Support port isolation between different ports</p> <p>Support ACL and SNMP to configure data packet filter flexibly</p> <p>Specialized design for system breakdown prevention to maintain stable system</p> <p>Support dynamic distance calculation on EMS online</p>
Layer-three Route		Support static router
Backplane Bandwidth		56G
Dimension		440*2300*44(mm*mm*mm)
Weight		4kg
Power Supply	220VAC	AC: 90V~240V, 47/63Hz
	-48DC	DC:-36V~-72V
	Support BBU	AC: 11V~14V

		Function: When the regular power supply is cut off, it can be switched to the backup power supply, and when the regular power supply resumes, it will switch back to the regular power supply and charge the backup power supply.
Power Consumption		43W
Operating Environment	Working Temperature	-15~55°C
	Storage Temperature	-40~85°C
	Relative Humidity	5~90%(non-condensing)



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