



XPON ONU
NTPL-XPON2GEACV
1GE+3FE+1POTS
+Dual band WIFI





1. Overview

- NTPL-XPON2GEACV is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides data and video service access.
- NTPL-XPON2GEACV is based on mature and stable, cost-effective GPON technology. It could switch automatically into GPON mode when access to the GPON OLT.
- NTPL-XPON2GEACV adopts high reliability, easy management, configuration flexibility and good quality of service guarantees to meet the technical performance of GPON Standard of ITU-TG.984.X and IEEE802.3ah.

2. Functional Feature

- Support GPON mode and EPON mode.
- Support Route mode for PPPoE/DHCP/Static IP and Bridge mode
- Support IPv4 and IPv6 Dual mode
- Support 2.4G&5.8G WIFI and Multiple SSID
- Support LAN IP and DHCP Server configuration
- Support Port Mapping and Loop-Detect
- Support Firewall function and ACL function
- Support IGMP Snooping/Proxy multicast feature
- Support TR069 remote configuration and maintenance
- Specialized design for system breakdown prevention to maintain stable system



3. Hardware Specification

Technical item	Details
PON Interface	1 GPON BoB (Class B+)
	Receiving sensitivity: ≤-27dBm
	Transmitting optical power: +0.5~+5dBm
	Transmission distance: 20KM
Wavelength	TX: 1310nm, RX: 1490nm
Optical Interface	SC/UPC Connector
Design Scheme	ECONET7526
Chip Spec	CPU 950MHz, DDR2 256MB
Flash	SPI NAND Flash 128MB
LAN Interface	1 x 10/100/1000Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector 3 x 10/100Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector
Wireless	Compliant with IEEE802.11b/g/n,ac
	2.4G Operating frequency: 2.400-2.4835GHz
	5.8G Operating frequency: 5.150-5.825GHz
	2.4G 2*2 MIMO, rate up to 300Mbps
	5.8G 2*2 MIMO, rate up to 867Mbps
	4 external antennas 5dBi
	Support Multiple SSID
POTS interface	1 FXS, RJ11 connector Support: G.711/G.723/G.726/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay Line testing according to GR-909
LED	12 LED, For Status of PWR、LOS、PON、LAN1~LAN4、2.4G、5.8G、TEL、wps、internet
Push-Button	2, For Function of Reset and WPS
Operating Condition	Temperature: 0°C~+50°C
	Humidity: 10%~90% (non-condensing)
Storing Condition	Temperature: -30°C~+60°C
	Humidity: 10%~90% (non-condensing)
Power Supply	DC 12V/1.5A
Power Consumption	≤8W
Dimension	208mm×133mm×42mm (L×W×H)
Net Weight	0.35Kg
Storing Condition	Temperature: -30°C~+60°C

4. Panel lights Introduction

Pilot Lamp	Status	Description
PWR	On	The device is powered up.
	Off	The device is powered down.
LOS	Blink	The device does not receive optical signals or with low signals.
	Off	The device has received optical signal.
PON	On	The device has registered to the PON system.
	Blink	The device is registering the PON system.
	Off	The device registration is incorrect.
LAN1~LAN4	On	Port (LANx) is connected properly (LINK).
	Blink	Port (LANx) is sending or/and receiving data (ACT).
	Off	Port (LANx) connection exception or not connected.
TEL	On	Phone has registered to the SIPServer.
	Blink	Phone has registered and data transmission(ACT).
	Off	Phone registration is incorrect.
2.4G	On	2.4G WIFI interface up
	Blink	2.4G WIFI is sending or/and receiving data (ACT).
	Off	2.4G WIFI interface down
5.8G	On	5G WIFI interface up
	Blink	5G WIFI is sending or/and receiving data (ACT).
	Off	5G WIFI interface down

5. Application

- Typical Solution: FTTH(Fiber To The Home)
- Typical Business: INTERNET、IPTV、WIFI etc

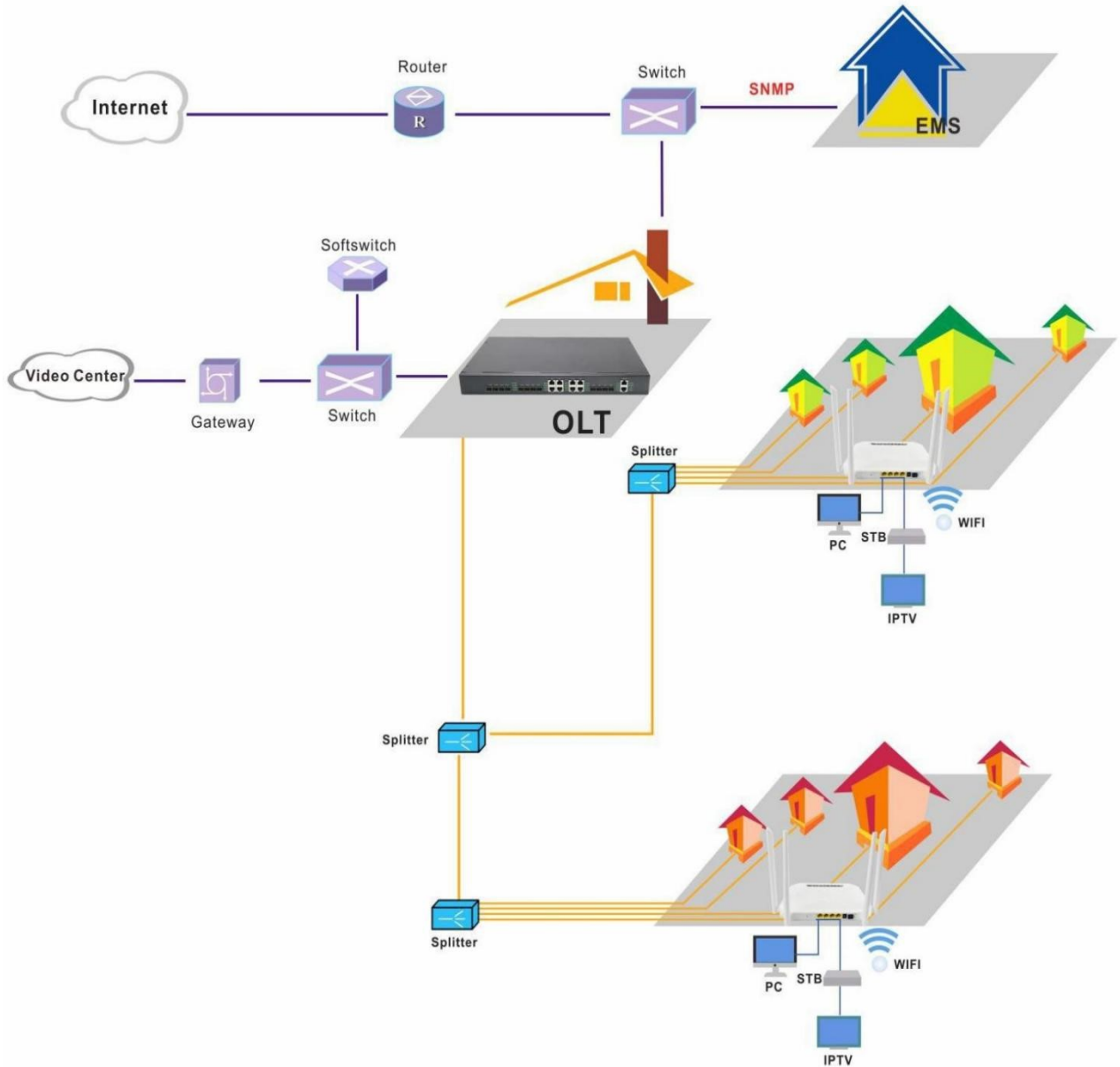


Figure: NTPL-XPON2GEACV Application Diagram