

## BT-311XR

### 1GE+3FE+VOIP+2.4G WLAN+CATV XPON ONU Product Specification

BT-311XR model ONU is a user terminal device independently developed by BTPT in line with such industrial background. The device has built-in two-layer switching function and three-layer routing function. With compact structure and small appearance, it is a kind of FTTH optical network unit with high performance and low power consumption, which is very suitable for the application requirements of various data services in FTTH networking scenarios of various operators. BT-311XR is an XPON product that can be adapted to EPON and GPON networks without replacing equipment and firmware.

#### Features:

- GPON working mode Compliance with IEEE 802.3ah & itu-t g.984.x standard
- GPON:8 T-CONTs,32 GEM Ports
- EPON working mode compliant with IEEE 802.3ah specification and OAM protocol
- Supports the WEB configuration function
- Layer 2 Switching, support 802.1Q VLAN, 802.1P QOS, Bandwidth Control, Spanning Tree, etc
- Layer 3 Home Gateway/CPE features with Hardware
- NAT, supports Route mode, etc
- Supports the configuration of Ethernet interface
- rates, working modes,MDI/ MDIX auto-negotiation mode, and Pause flow control
- Provides performance statistics on all Ethernet lines
- Support multicast IGMP snooping
- Supports the L2 wire speed forwarding
- Supports the AES-128 algorithm for data encryption of downlink data



#### Highlights:

- Support EPON/GPON mode and switch mode automatically
- Support PPPoE/ Static IP/ DHCP
- Support IPv4, IPv6 and IPv4/IPv6
- Integrate OMCI(GPON)/OAM(EPON) and TR-069 remote configuration and maintenance
- Provide Maximum rate 300Mbps 2.4GHz Wireless interface,2T2R external antenna, support multiple
- SSID Settings
- Provide POTS interface, support SIP protocol, POTS integrated circuit test complies GR-909
- Support CATV interface for Video Service, support to turn off CATV functionality
- Chipset :Realtek
- Compatible with 95% Third-party OLTs (Including Huawei/ZTE/Fiberhome/BT-PON and so on)



# BT-PON

Shenzhen Baitong Putian Technology Co., Ltd.



## Hardware Specifications

- Size: 192\*148\*35mm
- Optical signal access: EPON/GPON
- User interface: 1GE
- Indicator light: POWER/PON/LOS/LAN1/LAN2 /LAN3/LAN4/TEL1/USB/2.4G/WPS/CATV
- Button: Power switch Button, Reset Button, WLAN Button, WPS Button
- Weight: 250g
- Power adapter input: 100V~240V AC, 50Hz~60Hz
- PowerSupply requirement: 12V DC, 0.5A
- Power consumption: <10w
- Working temperature: -10°C ~ +45°C
- Environment humidity: 5% ~ 95% (Non-condensing)

## PON Interface

- Module type: SC/APC
- Working wavelength: PON: up 1310nm, down 1490nm ; CATV: 1550nm
- TX Optical power value: 0.5~4dBm
- RX Optical power sensitivity:  $\leq -28$ dBm
- Transmission distance: 0~20km
- Transmission rate:  
GPON: Up 1.244Gbps; down 2.488Gbps  
EPON: Up 1.244Gbps; down 1.244Gbps

## Ethernet Interface

- Interface type: 4\* RJ45
- Interface parameters: 1\*10/100/1000Mbps and 3\*10/100Mbps

## Wireless

- Working mode: IEEE 802.11 b/g/n/
- Antenna pattern: External 2T2R External antenna
- Antenna gain: 5dBi
- Wireless bandwidth: Support 20MHz/40MHz
- Interface rate: 2.4G WLAN: Maximum rate 300Mbps
- SSID: Up to 4 SSID broadcasts are supported

## POTS interface

- Interface type: 1\* RJ11
- Voice agreement: SIP
- Codecs: G.711/G.723/G.726/G.729
- Integrated circuit protocol: Gr-909 protocol is applicable

## CATV Interfac

- Optical receiving wavelength: 1550±10nm
- Optical reflection loss:  $\geq 45$ dBm
- RF, WDM, optical power: +2~-15dBm
- RF frequency range: 47~1000MHz, RF output impedance: 75Ω
- RF output level: 78dBuV
- AGC range: 0~-12dBm
- MER:  $\geq 32$ dB@-15dBm



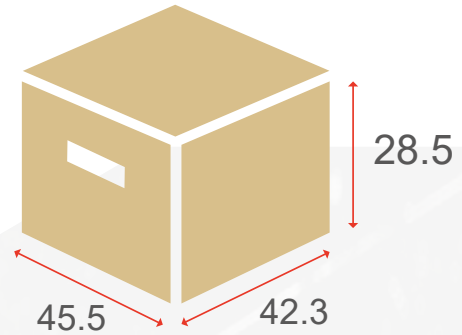
## Product Packing Size

### Package included:



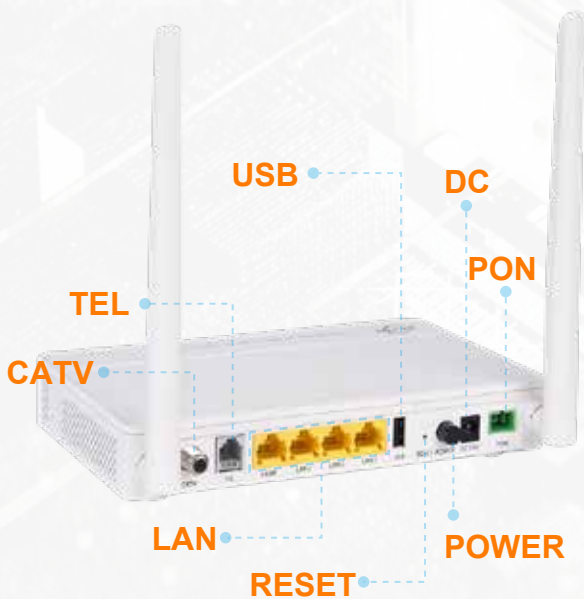
- ONU \* 1 PC
- Power adaptor \*1 PC
- Manual \*1 PC
- Box \*1 PC

### Packing list:



- 30pcs/Carton
- measurement: 45.5\*42.3\*28.5, 14kg

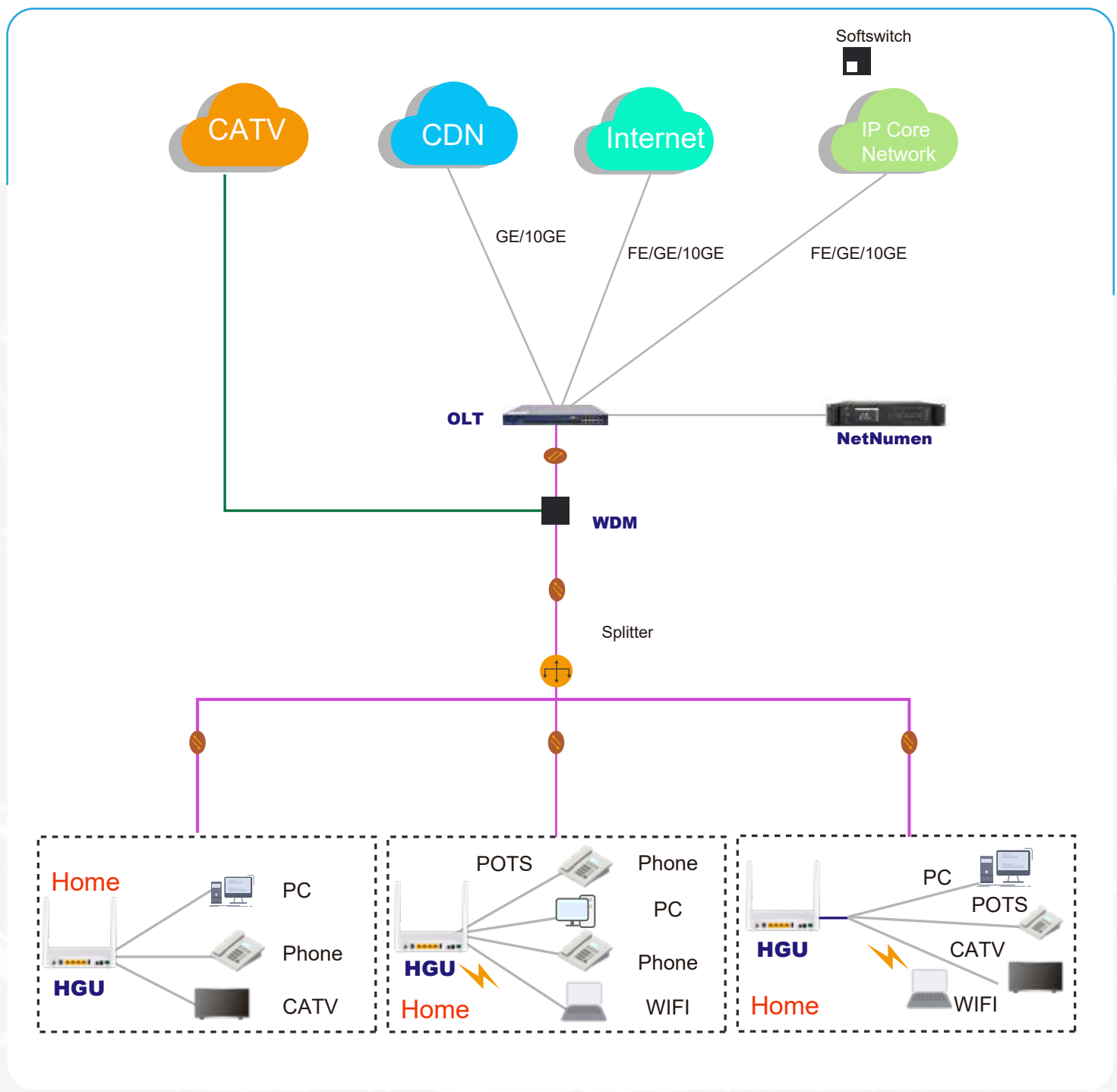
## Interface :



### ● Compatible with OLT Huawei/ ZTE/Fiberhome

- |         |        |
|---------|--------|
| ● PON   | ● LAN  |
| ● DC    | ● TEL  |
| ● POWER | ● CATV |
| ● RESET |        |
| ● USB   |        |

## Application Scenario



## Company Introduction

Shenzhen Baitong Putian Technology Co., Ltd. has more than 10 years experience in fiber optical equipment industry since from 2008, specializes in the research and development of optical access network technology especially ONU and OLT. It provides integrated network transmission products such as voice, data, and video based on IP networks.


### Service Support:

- Fully understand the needs of customers, and create value for customers with advanced technology, considerate service, and tailor-made solutions.
- Provides customers with a full range of after-sales service and technical support, and strive to create value for customers.

### Company Mission:

- Fight for Access the world

#### Shenzhen Baitong Putian Technology Co., Ltd.

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