

**Specification****HUR4101XR**

XPON ONU

2.4G&5.8G WIFI

4G+POTS+CATV+USB

1 OVERVIEW

- HUR4101XR is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides data and video service access.
- HUR4101XR is based on mature and stable, cost-effective XPON technology. It could switch automatically into EPON mode or GPON mode when access to the EPON OLT and GPON OLT.
- HUR4101XR adopts high reliability, easy management, configuration flexibility and good quality of service guarantees to meet the technical performance of EPON Standard of China Telecom CTC3.0 and GPON Standard of ITU-TG.984.X

2 FUNCTIONAL FEATURE

- Support EPON/GPON mode and switch mode automatically
- 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 SIP Protocol for VoIP Service
- Support CATV interface for Video Service and remote control by Major OLT
- 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 (Bosa on Board) Receiving sensitivity: $\leq -27\text{dBm}$ Transmitting optical power: $0\sim +5\text{dBm}$ Transmission distance: 20KM |
| Wavelength | TX: 1310nm, RX: 1490nm |
| Optical Interface | SC/APC Connector |
| Chip Spec | RTL9607C DDR3 256MB |
| Flash | 1Gbit SPI NAND Flash |
| LAN Interface | 4 x 10/100/1000Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector |
| CATV Interface | RF, WDM, optical power: $+2\sim -15\text{dBm}$ Optical reflection loss: $\geq 45\text{dB}$ Optical receiving wavelength: $1550\pm 10\text{nm}$ RF frequency range: 47~1000MHz, RF output impedance: 75Ω RF output level: 78dBuV AGC range: $-13\sim +1\text{dBm}$ MER: $\geq 32\text{dB}@-15\text{dBm}$ |
| 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 | 1FXS, 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 |
| USB | Standard USB2.0 |
| LED | 11 LED, For Status of PWR、LOS、PON、LAN1~LAN4、2.4G、5.8G Worn、Normal(CATV) |
| Push-Button | 2 For Function of Factory Reset and WPS |
| Operating Condition | Temperature: $0^{\circ}\text{C}\sim +50^{\circ}\text{C}$ Humidity: 10%~90% (non-condensing) |
| Storing Condition | Temperature: $-30^{\circ}\text{C}\sim +60^{\circ}\text{C}$ Humidity: 10%~90% (non-condensing) |
| Power Supply | DC 12V/1A |
| Power Consumption | $\leq 6\text{W}$ |
| Dimension | 260mm×158mm×40mm (L×W×H) |
| Net Weight | 0.35Kg |
| Storing Condition | Temperature: $-30^{\circ}\text{C}\sim +60^{\circ}\text{C}$ |

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. |
| 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 |
| Worn(CATV) | On | Input optical power is higher than 3dbm or lower than -15dbm |
| | Off | Input optical power is between -15dbm and 3dbm |
| Normal(CATV) | On | Input optical power is between -15dbm and 3dbm |
| | Off | Input optical power is higher than 3dbm or lower than -15dbm |

APPLICATION

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

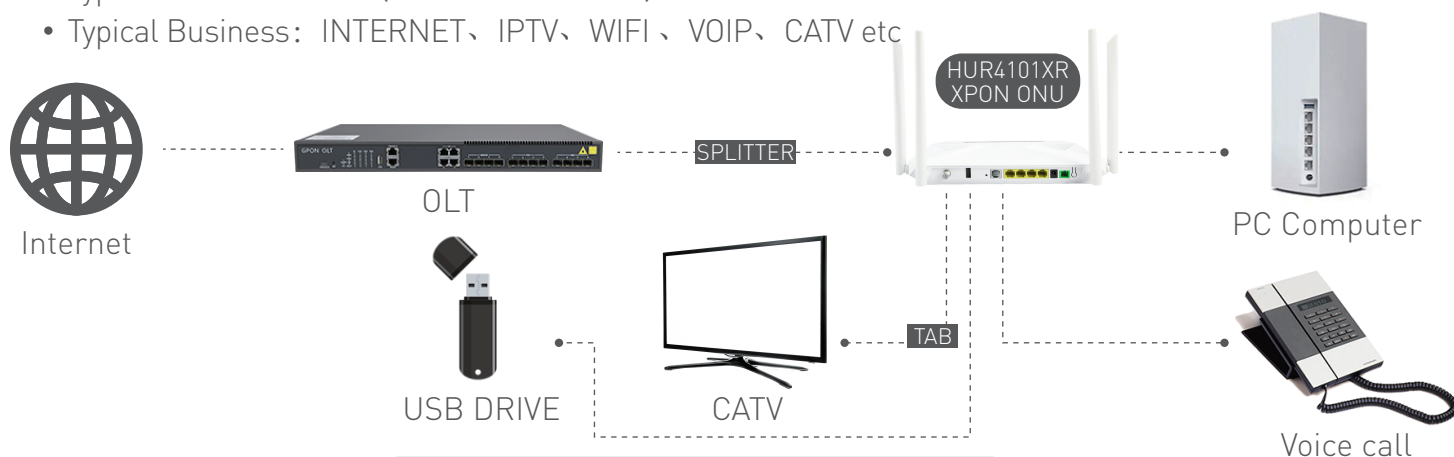


Figure: HUR4101XR Application Diagram