1 OVERVIEW

- HUR2101XR is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides different services access.
- HUR2101XR is based on mature and stable, cost-effective XPON technology.
- HUR2101XR 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/IPoE/Static IP and Bridge mode
- Support IPv4 and IPv6 Dual mode
- Support 2.4G WIFI 802.11 b/g/n and 2*2 MIMO
- 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: ≤-27dBm Transmitting optical power: 0~+5dBm Transmission distance: 20KM
Wavelength	TX: 1310nm, RX: 1490nm
Optical Interface	SC/APC Connector
Chip Spec	RTL9602C,DDR2 64MB
Flash	SPI Nor Flash 16MB
LAN Interface	1 x 10/100/1000Mbps(GE) and 1 x 10/100Mbps(FE) auto adaptive Ethernet interfaces. Full/Half, RJ45 connector
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
Wireless	Compliant with IEEE802.11b/g/n, Operating frequency: 2.400-2.4835GHz support MIMO, rate up to 300Mbps, 2T2R,2 external antenna 5dBi, Support: Multiple SSID Channel: Auto Modulation type: DSSS, CCK and OFDM Encoding scheme: BPSK, QPSK, 16QAM and 64QAM
CATV Interface	RF, WDM, optical power : +2~-15dBm Optical reflection loss: ≥45dB Optical receiving wavelength: 1550±10nm RF frequency range: 47~1000MHz, RF output impedance: 75Ω RF output level: 78dBuV AGC range: -13~+1dBm MER: ≥32dB@-15dBm
LED	10 LED, For Status of WIFI、WPS、PWR、LOS、PON、LAN1~LAN2、FXS、 Worn、 Normal(CATV)
Push-Button	3,For Function of Factory Reset, WLAN, WPS
Operating Condition	Temperature: 0℃~+50℃ Humidity: 10%～90%（non-condensing）
Storing Condition	Temperature: -30℃~+60℃ Humidity: 10%~90%（non-condensing）
Power Supply	DC 12V/1A
Power Consumption	≤6W
Dimension	180mm×107mm×28mm（L×W×H）
Net Weight	0.2Kg

4 PANEL LIGHTS INTRODUCTION

Pilot Lamp	Status	Description
WIFI	On	The WIFI interface is up.
	Blink	The WIFI interface is sending or/and receiving data (ACT).
	Off	The WIFI interface is down.
WPS	Blink	The WIFI interface is securely establishing a connection.
	Off	The WIFI interface does not establish a secure connection.
PWR	On	The device is powered up.
	Off	The device is powered down.
LOS	Blink	The device doses 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~LAN2	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.
FXS	On	Phone has registered to the SIP Server.
	Blink	Phone has registered and data transmission (ACT).
	Off	Phone registration is incorrect.
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

5 APPLICATION

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

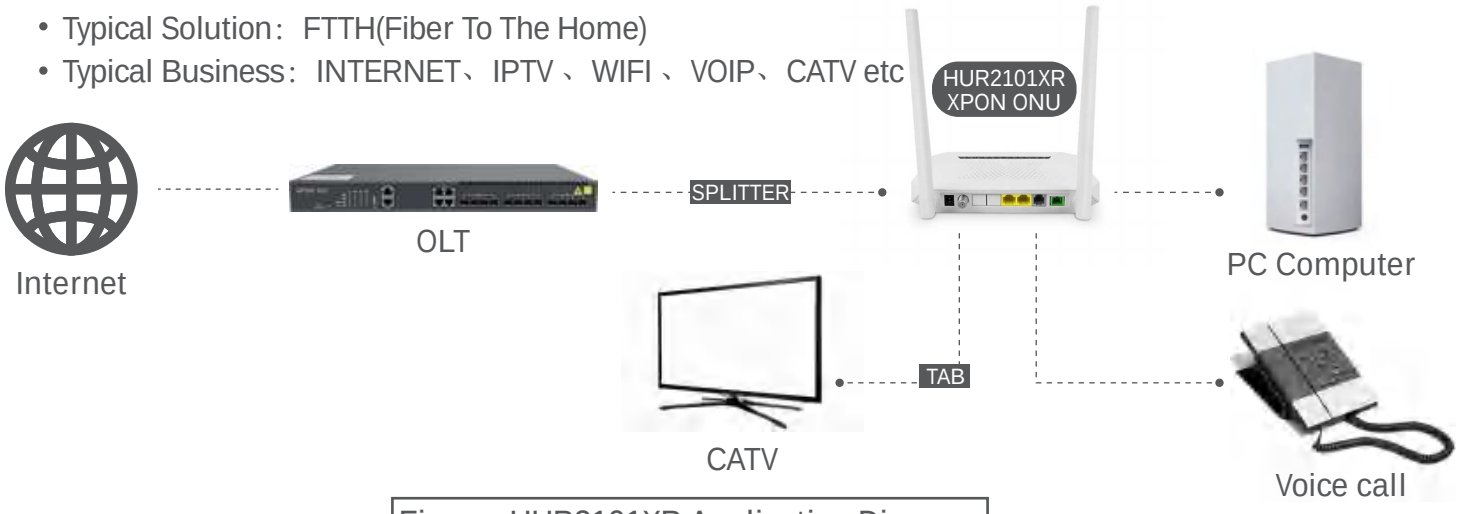

Figure: HUR2101XR Application Diagram