Specification

HUR3110X

XPON ONU 1G3F+CATV

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1 OVERVIEW

- HUR3110X is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrierclass FTTH application provides different services access.

- HUR3110X is based on mature and stable, cost- effective XPON technology.

- HUR3110X 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 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.

３HARDWARE SPECIFICATION

Item	Parameter
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	RTL9603C,DDR2 128MB
Flash	SPI Nor Flash 16MB//SPI Nand 1Gbit
LAN Interface	1x10/100/1000Mbps(GE) and 3x10/100Mbps(FE) auto adaptive Ethernet interfaces. Full/Half, RJ45 connector
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	9 LED, For Status of PWR, LOS, PON, LAN1, LAN2, LAN3, LAN4, Worn, Normal(CATV)
Push-Button	1 Function of Factory Reset
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	200g

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 doses not receive optical signals or with low signals.
	OFF	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.
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)
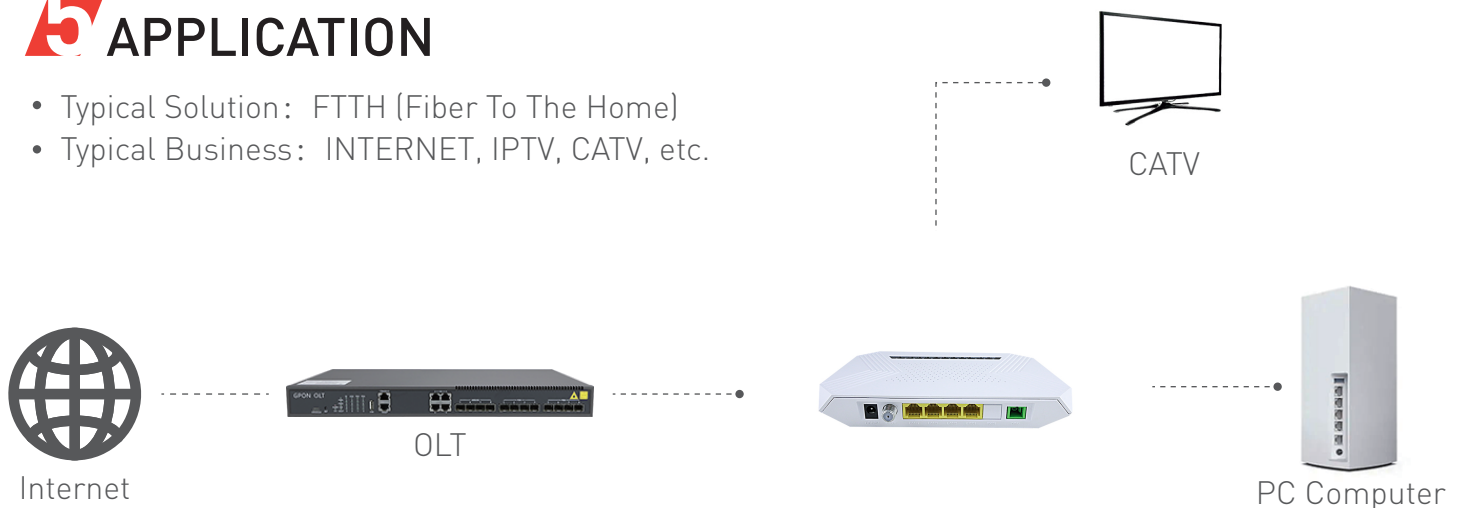- Typical Business：INTERNET, IPTV, CATV, etc.

CATV

Internet

OLT

PC Computer

Figure: HUR3110X Application Diagram