



1 OVERVIEW

- SHUR3104XR is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides different services access.
- SHUR3104XR is based on mature and stable, cost-effective XPON technology.
- SHUR3104XR 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 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

| 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/UPC Connector |
| Chip Spec | RTL9603C,DDR2 128MB |
| Flash | SPI Nor Flash 16MB /SPI Nand flash 1Gbit |
| LAN Interface | 1 x 10/100/1000Mbps(GE) and 3 x 10/100Mbps(FE) auto adaptive Ethernet interfaces. Full/Half, RJ45 connector |
| 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 |
| LED | 9 LED, For Status of WIFI、WPS、PWR、LOS、PON、LAN1~LAN4 |
| 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 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. |

5 APPLICATION

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

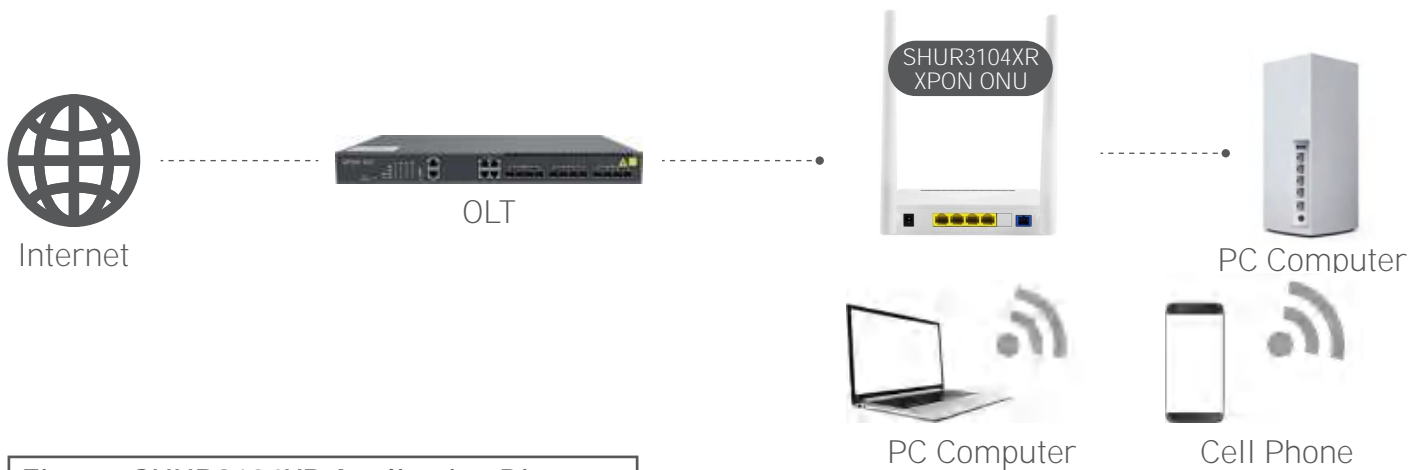


Figure: SHUR3104XR Application Diagram