

## DNS

Support TR069, NAT  
DMZ, DNS features



Support Multiple ssid



Support Multiple VLAN

## CAS

Support CAS, L2oGRE



Support IPV6 , PPPoE, DHCP  
and Static IP configuration for  
WAN Interface



Support IP, MAC filtering, -  
Firewall Functionality in  
routed mode



Support for XPON, adaptive  
EPON or GPON OLT on the  
network



## RH821GWV xPON ONT



### 1. Product Overview

RH821GWV terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators or cable operators. The box is based on the mature Gigabit GPON technology, which have high ratio of performance to price, and the technology of 802.11 n/ac WiFi, Wireless power can reach more than 23dBm, Support for USB2.0 extension devices and high quality VoIP as well. They are highly reliable and easy to maintain, with guaranteed QoS for different service. And It is fully compliant with technical regulations such as ITU-T G.984.x



## 2. Key Feature Support on RL821GWV

| Features         | RL821GWV                                                                             |
|------------------|--------------------------------------------------------------------------------------|
| GPON Features    | Compliant with ITU-T G.984 GPON standard                                             |
|                  | FEC (Forward Error Correction) in both upstream and downstream                       |
|                  | QoS scheduling based on SP or WRR between GEM port and T-CONT                        |
|                  | Downstream multicast GEM port and broadcast GEM port                                 |
| Ethernet Feature | Support Auto-speed and MDI/MDIX auto detection                                       |
|                  | Internal L2 switch                                                                   |
|                  | Advanced data processing function,Such as VLAN label processing, flow classification |
| Gateway Feature  | WAN support Router and Bridge mode                                                   |
|                  | Router mode supports PPPoE/DHCP/ static IP                                           |
|                  | WAN support Internet, VoIP, IPTV, TR069                                              |
|                  | LAN supports DHCP and static IP                                                      |
|                  | Support NAT and NAPT                                                                 |
| VoIP Feature     | Support SIP (RFC3261) or MEGACO v2 (H.248)                                           |
|                  | Support Voice coding: ITU-T G.711/G.723/G.726/G.729, auto-negotiate with call agent  |
|                  | Support Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length  |
| WIFI Feature     | 300 Mbps on 2.4 GHz                                                                  |
|                  | IEEE 802.11 n/g/b/a wireless LAN                                                     |
|                  | 2.4 GHz band: 2400 - 2483.5 MHz                                                      |
|                  | WEP, WPA-PSK, WPA2-PSK and other encryption                                          |
| OAM Feature      | Standard OMCI (the embedded operations channel)compliant with ITU-T G.988            |
|                  | Compliant with TR-069 standard                                                       |
|                  | Compliant with TR-098、TR-140 terminal integrated management interface                |
|                  | Alarm reporting, performance monitoring                                              |

## 3. Product Specification

### GPON Interface

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Rate                 | Upsteam: 1.244Gbps Downsteam: 2.488Gbps         |
| Interface standard   | ITU-T G.984.2/ITU-T G.984.3/ITU-TG.988 Class B+ |
| Launch power         | Min: 0dBm Max: +5dBm                            |
| Sensitivity          | -27dBm                                          |
| Input Power Overload | -8dBm                                           |

### Service Interface

|                |                                     |
|----------------|-------------------------------------|
| GPON Interface | 1 GPON Port                         |
| Data Interface | 1 GE + 1 FE                         |
| POTS Interface | 1 FXS Port                          |
| WIFI Interface | IEEE 802.11 ac/n/g/b/a wireless LAN |
| Antenna Type   | 2 external antennas                 |

### Environmental conditions

|           |                                                                |
|-----------|----------------------------------------------------------------|
| Storage   | Temperature -10 to 70°C, rel. humidity 10-90% (non-condensing) |
| Operation | Temperature 0 to 45°C, rel. humidity 10-90% (non-condensing)   |

### Power Supply and Consumption

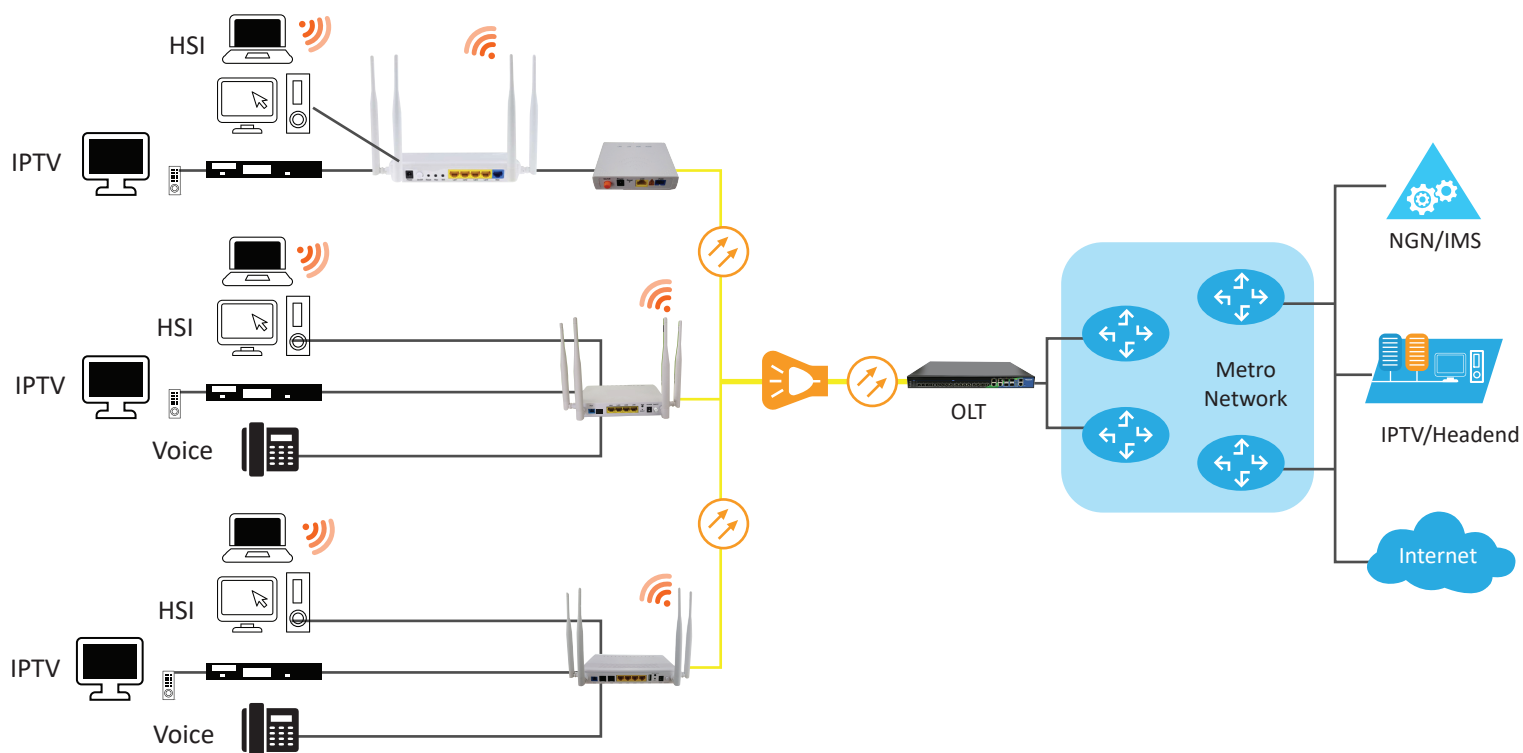
|               |                                                    |
|---------------|----------------------------------------------------|
| Power Adaptor | Input: 100 to 240 V AC, 50/60 Hz; Output: 12 V, 1A |
| Consumption   | ≤8W                                                |

### Physical specifications

|            |                          |
|------------|--------------------------|
| Dimensions | 180mm×120mm×31mm (L×W×H) |
| Weight     | 0.24KG                   |



## 4. Network Mode



### Key Benefits

- ITUG.984 GPON compliant
- Voice Protocol: SIP and H.248
- Multiple Interfaces: 1GE, 1FE, 1POTS, WIFI
- Multiple Management Options
- Compatible with third-party OLT Vendor