RLTECH

F2TH

DNS

SupportTR069,NAT DMZ,DNS features

SSID

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

TEC Certified

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

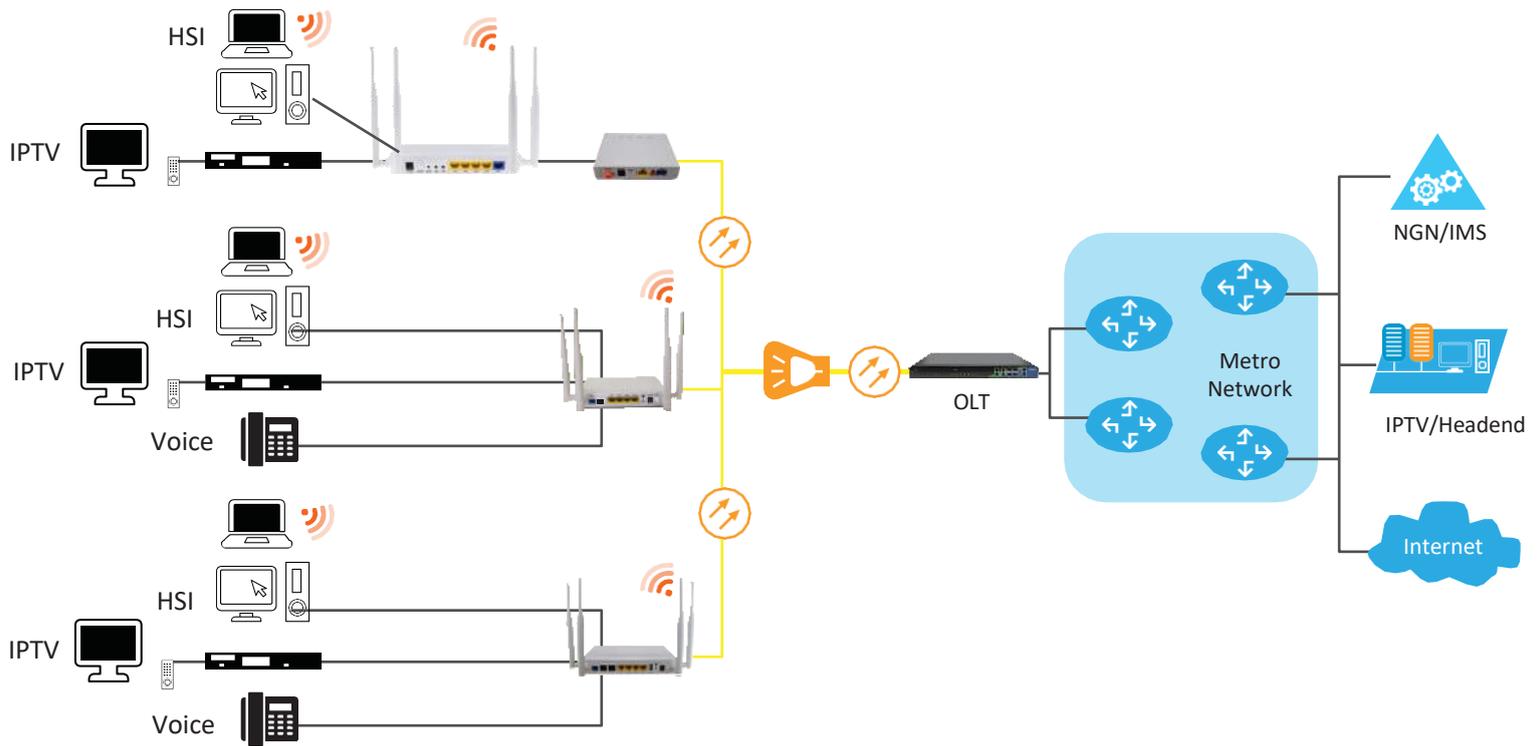|	
Storage	Temperature -10 to 70°C, rel. humidity 10-90% (non-condensing)
Operation	Temperature 0 to 45°C, rel. humidity 10-90% (non-condensing)

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

Labels in diagram: HSI, IPTV, Voice, OLT, Metro Network, NGN/IMS, IPTV/Headend, Internet

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