RLTECH RH804GCW GPON ONT Data Sheet

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

RH804GCW

GPON ONT

1. Product Overview

RH804GCW 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 Layer 2 Ethernet switch, 11N WiFi, CATV, WDM and high quality VoIP as well. It is 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 and technical requirement of GPON Equipment.

2. GPON Interface of device

Parameter	Nominal
Connector style	SC/APC OR SC/UPC
PON quantity	1
Fiber style	Single mode
Wavelength	TX：1310+/-20nm RX：1490+/-10nm
PON interface standard	ITU-T G.984.2/ITU-T G.984.3/ITU-TG.988 Class B+
PON interface receiving rate	2.488Gpbs
PON interface transmitting rate	1.244Gpbs
Output optical power	Min：0.5dBm | Max：+5dBm
Optical receiver sensitivity	Precede -28dBm
The length of the optical link	Max 20km

3 WIFI Specifications

Standard	IEEE 802.11 ac/b/g/n
Frequency	2.4~2.4835MHz
Transmission speed	2.4GHz Frequency
	IEEE 802.11b：11/5.5/2/1M(Auto)
	IEEE 802.11g：54/48/36/24/18/12/9/6(Auto)
	IEEE 802.11n：270/243/216/162/108/81/54/27Mbps, up to 300Mbps
Channel number	2.4GHz：13
Spread-spectrum Technique	DSSS(Direct sequence spread spectrum)
Data Modulation	
Sensitivity @PER (Packet Error Rate)	DBPSK、DQPSK、CCK and OFDM(BPSK/QPSK/16-QAM/64- QAM)
	270M：-68dBm@10% PER；130M：-68dBm@10% PER
	108M：-68dBm@10% PER；54M：-68dBm@10% PER
	11M：-85dBm@8% PER；6M：-88dBm@10% PER
	1M：-90dBm@8% PER
Transmission Distance	Indoor Maximum 120 meter, Outdoor Maximum 360 meters (The distance depends on the environment)
RF power (2.4GHz)	20dBm EIRP
Antenna	5dBi Antennas

4. Specification and working environment

Parameter	Nominal
Dimension	180mm×121mm×30mm（L×W×H）
Net weight	0.26kg
Typical power consumption	<12W
Noise	None

Parameter	Nominal
Cooling style	Naturally cooling
Power supply	12V, 1.0Amp
Installation style	Support PC, wall mount or put inside of information box
Environment	5~50°C
Atmospheric pressure	70~106Kpa
MTBF	50,000hours@25°C
MTTR	30minutes
Parameter	Nominal

a. Special function

- Support TR069,NAT,DMZ,DNS features
- Support Multiple ssid
- Support Multiple VLAN
- 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

5. Interface of device

Port Type	Function
RF	CATV RF output port, connect a TV or set-top box via this interface.
CATV	CATV optical interface, support SC / APC optical pigtail connector forCATV access networks PON + CATV three wavelength signals.
LAN1-4 port	RJ45Port connects to local internet, 1 GE port and 3 FE port

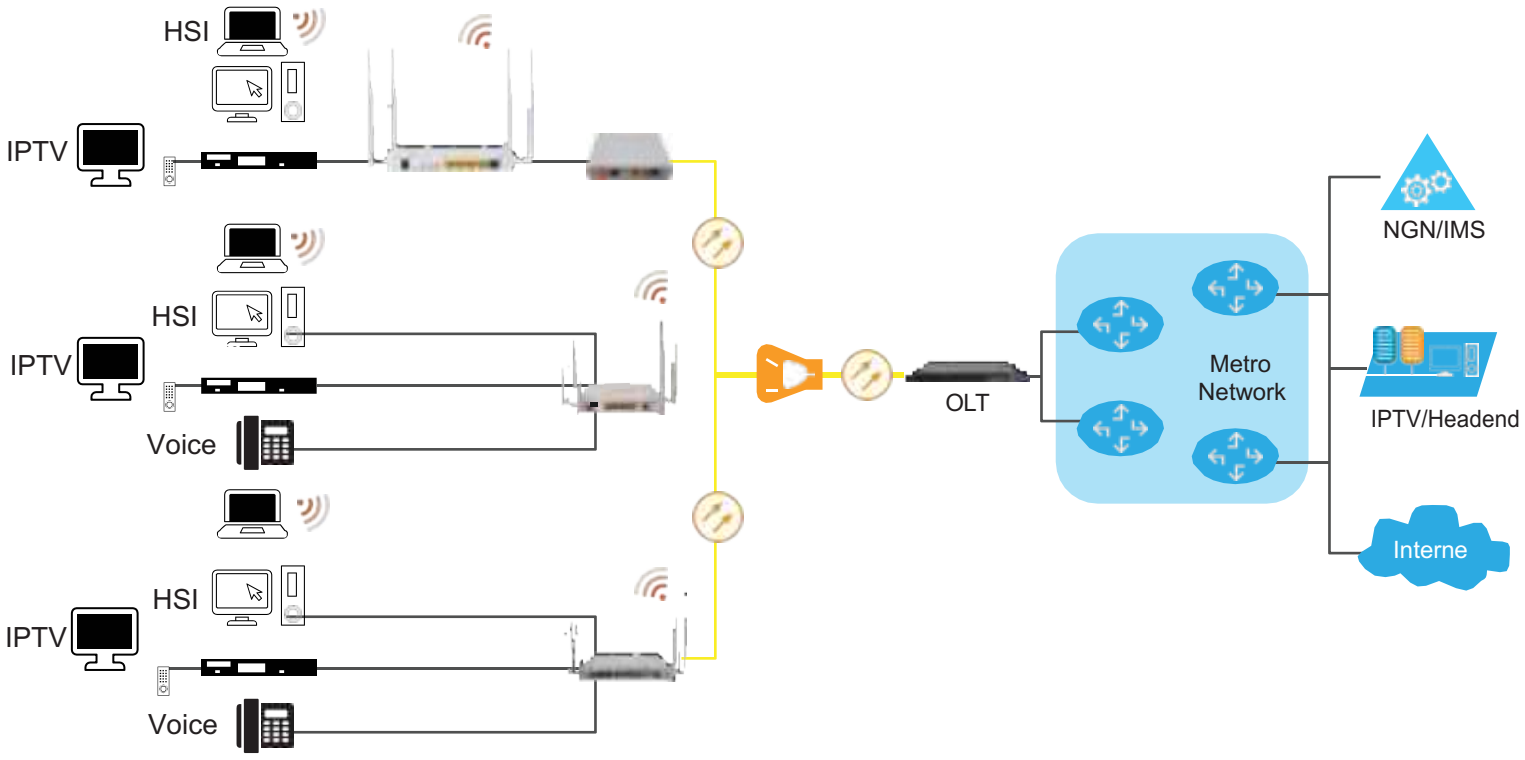
6. CATV Specifications

Item			Unit	Parameter
Optical parameter	Receivingoptical wavelength		nm	1200~1650
	Receiving optical power		dBm	-18~+0
	Reflection loss		dB	≥50
	Connector		-	SC/APC
	Fiber type		-	Single mode
	Isolation (WDM)	Forward channel	dB	≥40
		Reflection channel	dB	≥22
RF parameter	Frequency		MHz	47 ~ 1000
	In-band flatness		dB	±1
	Output reflection loss		dB	≥14
	Nominal output level		dBuV	=75± 1 (AGC range: -15~ -2dBm)
	Attenuation range		dB	-18~0
	C/N		dB	≥ 46
	C/CTB		dB	≥ 65
	C/CSO		dB	≥ 65

	Output impedance	Ω	75

Item		Unit	Parameter
Others	Power supply （DC）	V	5
	Power consumption	W	≤1.5
	Working temperature	C	0 ~ +45
	Storage temperature	C	-40~ +75
	Relative humidity	%	Maximum 95% non-condensing

7. Network Mode



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