

RH841GWV-DG GPON ONT RH841GWV-DG



1. Product Overview

RH841GWV-DG 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 can reach more than 23dBm, Layer 2/3, high quality power VoIP as well. They are highly reliable and easy to maintain, with guaranteed QoS for different service. And It is compliant with technical regulations such as ITU-T G.984.x and technical requirement of GPON Equipment. needs high technology via fiber optic cable, it has high performance, lower receiver optical power and lower cost for LCOs providing high quality and excellent FTTH network solution.

2. GPON Interface of device :

ACE-WR860-M Series FTTH Passive Mini Indoor Optical Receiver Node MATV/CATV System is passive mini optical receiver available for MATV & CATV on FTTH Network working frequency range is 47~860 MHz. Can customization for working on frequency range is 47~2150MHz (Optional). ACE-WR860-M can be used for Digital MATV inside the house, condominium, apartment or TV point that

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	Msymbol/sec	2.488Gpbs
PON interface transmitting rate		1.244Gpbs
Output optical power	no.	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	2412~2472MHz
	5GHz:
	Band-1 frequency 5.15GHz 5.25GHz
	Band-2 frequency 5.25GHz~ 5.35GHz
	Band-3 frequency 5.500GHz ~ 5.700GHz
	Band-4 frequency 5.725GHz ~ 5.825GHz
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
	5GHz Frequency
	IEEE 802.11n: Highest transmission speed up to 300Mbps
	IEEE 802.11ac : Highest transmission speed up to 867Mbps
Channel number	2.4GHz : 13 5GHz: 4 (It depends on the actual area.)
Spread-spectrum Technique	DSSS(Direct sequence spread spectrum)
Data Modulation	DBPSK、DQPSK、CCK and OFDM(BPSK/QPSK/16-QAM/64-QAM)
Sensitivity @PER (Packet Error Rate)	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
RF power (5 GHz)	Band-1 EIRP 17.45dBm
	Band-2 EIRP 17.82dBm
	Band-3 EIRP 17.92dBm
	Band-4 EIRP 18.92dBm
Antenna	5dBi Antennas

4. Specification and working environment

Parameter	Nominal
Dimension	176mmx113mmx31mm(LxWxH)
Net weight	0.24kg
Typical power consumption	<7W
Noise	None
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 WANInterface
- Support IP,MAC filtering, Firewall Functionality in routed mode

b. POTS Specifications

- support SIP voice protocol
- support H.248 voice protocol
- SIP protocol: ISP provide the port number of the main SIP proxy server and terminal VOIP
 - Value range is 1-65535, system default value is 5060
- H.248 protocol: ISP provide port number of the spare MGC server and VOIP terminal
 - Value range is 1-65535, system default value is 2944
- Port ringing current voltage: 50±10VAC, 30±10H

Interface of device

Port Type	Function
PON port	Connect PON port with internet by SC type, single mode optical fiber cable
FXS port	Connect the telephone with FXS port by telephone wire
LAN 1~4 port	RJ45 Port connects to local internet,4 GE port

