GL-E8007U-RWF（4GE+WIFI+CATV）

product overview ：

E8007u-RWF is the device terminal for ONT in the EPON system, cooperating with OLT. ONT can provide various broadband services to the connected users, such as Internet, VoIP, IPTV, Video Conference and other businesses.It provides a PON interface, four 10/100/1000m adaptive Ethernet ports, and a USB interface based on mature, stable, cost-effective EPON technology.Single fiber WDM technology (down 1490nm, up 1310nm) is adopted to connect only one fiber to OLT, and the maximum transmission distance is up to 20km. It supports the power down and report function and supports the local WEB management function.

Product interface：

Interface: hardware interface, facing the interface direction from left to right, in order of interface: CATV interface, pon interface, net port 4-net port 1, wireless switch, reset key, USB interface, dc 12-volt interface, power switch.
Indicator light: LED definition from left to right: power supply, fiber G, optical signal, broadband, phone, port 1-4, USB.

product feature：

1. HGU ONU product configuration, support bridge and NAT mode;
2. BOB product process;
3.802.11 b/g/n wireless access;
4.Wireless use of 2*3dBi external dual antenna;
5. USB interface supports configuration saving and recovery;
6.12v / 1.5a external power supply.
7.one CATV interface.

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Product key features：

• Handling characteristics：

> 600MHz CPU processor,I-Cache: 64KB, D-Cache: 32KB；

Key product features：

➢ **EPON**

>IEEE 802.3 EPON MAC standard;

> supports a downtrend rate of 1.25Gbit/s and an uptrend rate of 1.25Gbit/s.

> supports DS/US FEC;

> supports the downstream encryption and decryption function;

> supports bandwidth allocation;

> supports synchronous Ethernet function;

> supports RFC4837;

➢ **Business performance**

>Two-layer bidirectional line-speed forwarding of data services, support 2K MAC address tables in bridge mode;

>3/4 layer hardware NAT/NAPT;

>Support 802.3, 802.1q Tag/Untag Ethernet frames；

>MAC support ACL rules, IP, TCP/UDP, ICMP and IGMP, IPV6 format；

>Each port has eight priority queues, supporting 32 Shared tables with a granularity of 8kpbs；

>MIB counter support, mib-ii RFC 1213, ethemet-like MIB RFC 3635, interface group MIB RFC 2863, RMON RFC 2819, bridge MIB RFC 1493, bridge MIB extension RFC26741、ITU G.984.4 OMCI ME MIBs；

>Supports 8 enhanced filter database stack vlans and port isolation for use；

>Port mirroring with multicast monitoring source ports is supported to monitor target ports；

>Support port IEEE802.3ad link aggregation, up to 4G bandwidth；

>support OAM and EEELLDP；

>Support loop detection, IGMP/MLD detective trap function；

>Ethernet supports 802.1Qav and 802.1AS/1588v2 timing synchronization；

>Support DOS attack prevention；

>Support IEEE 802.3az energy-saving Ethernet capability, support 1000base-t, 00base-tx full duplex and 10base-full/half duplex modes；

>Support inport-based flow control, for exceeding the flow, you can choose to drop the packet or Pause frame back pressure,Support QoS function;

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➢ **WIFI feature**

>technical norms：IEEE802.11b，IEEE802.11g，IEEE802.11n；

>debug mode：802.11b：DSSS/BPSK/QPSK/CCK

>802.11g：OFDM/DSSS/BPSK/QPSK/CCK;

>802.11n： OFDM/DSSS/BPSK/QPSK/CCK;

>speed：802.11b：compatibility 11,5.5,2,1 Mbps；

>802.11g：compatibility 54,48,36,24,18,12,9,6 Mbps；

>802.11n：compatibility 130,117,104,78,65,58,52,39,26,19.5,13,6.5Mbps；

>channel：1~11 (USA, Canada) ; 1~13 (Europe) ; 1~14 (Japan)；

>frequency domain ： 2.4GHz-2.4835GHz；

>transmission power：11b：17dBm   +/- 1.5dBm；

>11g：14dBm   +/- 1.5dBm；

>11n：11dBm   +/- 1.5dBm；

>receive sensitivity ： 11b：83dBm；

>11g：70dBm；

>11n：64dBm；

>coverage area ： reach100m ；

>security safe：64/128-bits WEP; WPA/WPA2；

>The antenna number：2*3dBi Internal Antenna；

➢ **CATV feature:**

> The wavelength of light received by is nm 1210 ~ 1610

> The optical power received by is dbm-2 ~ -18

> optical connector -5 ~ -15 FC/APC or SC/APC

> rf connector F - head inch or metric system

> The frequency range of is 47 ~ 1000 MHz

> frequency response flatness dB ±0.75 (-10dbm received light power), ±1.5 (-15dbm received light power)

> output reflection loss dB ≥16

> Output rf impedance Ω 75 >

> nominal output level dBuV 76±2 (-15dbm received optical power)

> C/N ≥43 db ~ C/CSO ≥62 db ~ C/CTB ≥62 db (-9dbm received optical power, 59 channel pal-d analog signal +16 channel digital channel)

> MER value dB ≥ 32-10dbm received optical power,80 digital signals

> MER value dB ≥ 30-15dbm received optical power,80 digital signals

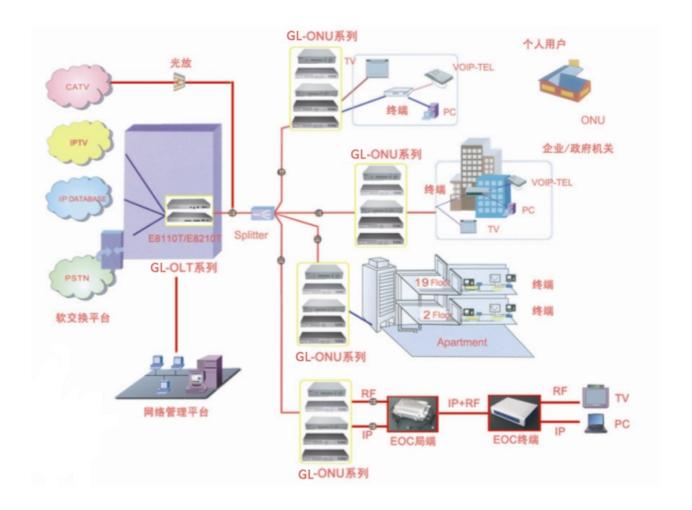> operating temperature: -25 ~ +55

> power consumption W 1.5

➢ **Support protocols and standards：**

>ITU-T G.984.1/2/3/4、IEEE802.3、IEEE802.3u、、IEEE802.3x、IEEE802.3z、IEEE802.1d、IEEE802.1p、IEEE802.1q、IEEE802.1x、RFC1155、 RFC1157、 RFC1112、 RFC1113 wait.

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应用方案：FTTX

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