

Product overview

E8007U-RA is an ONT equipment terminal in the EPON system and cooperates with the OLT. ONT can provide various broadband services to connected users, such as Internet, VoIP, HDTV, Video Conference and other services. It is based on mature and stable, cost-effective EPON technology, providing a PON interface, four 1000M adaptive electrical interfaces, a VOIP telephone interface and a USB interface. Using single fiber wavelength division multiplexing technology (downstream 1490nm, upstream 1310nm), only one optical fiber is required to connect to the OLT, the maximum transmission distance can reach 20 kilometers, support power-off reporting function, support local WEB management function, professional for hotel industry applications , All iron shell, wide temperature range products. Support power supply for camera and AP.

Product feature:

Interface: hardware interface, looking from left to right toward the interface, the interface sequence is: RJ11 telephone interface, network port 4-network port 1, wireless switch, reset button, USB interface, DC 12 volt interface, power switch.
Indicator light: LED definition from left to right: power supply, optical fiber G, optical signal, broadband, telephone, network port 1-4

Product Features:

- * HGU ONU Product Form, Support bridge and NAT mode;
- * 11b/g/n Wireless access;
- * Wireless use 2T2R built-in dual antenna;
- * Provide a VOIP interface to support connection to ordinary telephones;
- * 48V/1.25A External power supply.

Product key features:

- * Processor characteristics:
 - >Support 800MHz frequency ARM processor;
 - >Support 32KB I-Cache and D-Cache;

* Product key features:

* EPON

- >Comply with IEEE802.3ah standard;
- >Support downstream rate 1.244Gbit/s, Upstream rate 1.244Gbit/s;
- >Support bidirectional FEC, Support RS(255,239), RS(255,223) FEC Codec;
- >Support AES128 Encryption and decryption function;
- >Support SBA and DBA Bandwidth allocation;
- >Support synchronous Ethernet function;
- >Support Dying-Gasp, Support rogue onu detection;

* VOIP

- >Support 1 way voice processing;
- >Support various prompt sound generation;

- >Support G.711、G.722、G.729、T38 etc Codec;
- >Support FoIP function;
- >Support Fax/Modem VBD (Voice Band Data) function;
- >Support echo suppression, voice activity detection, comfortable background noise, voice frame compensation and other functions;
- >Support VoIP statistics, fault diagnosis function;
- >Each POTS can be individually configured with VoIP codec mode, and can be configured with codec priority order and packing interval;
- >Support DTMF detection, generation, transmission and recovery functions;
- >Support FSK generation, with calling number display function;
- >Support secondary dialing, support RFC2833 in-band transmission of DTMF tones;
- >Support three-party conference function;

Business performance

- >Two-way wire-speed forwarding of Layer 2 data services, in bridge mode support 4K MAC address table;
- >Support Tag / Untag Ethernet frame of 802.3, 802.1Q, Support QinQ;
- >Support flexible tag processing, compatible with CTC2.1, TR156 requirements;
- >Support flexible flow classification, maximum support 8K flow classification rules;
- >Support special message capture;
- >Support link error event monitoring and loopback monitoring;

- >Support L2, L3 (IPv4/6) Multicast forwarding, Support multiple forwarding methods;
- >Support multicast replication function, support 3K V4 multicast groups and 768 V6 multicast groups;
- >Support user port replication;
- >Support 802.1ag/Y.1731, Support connectivity monitoring and performance testing;
- >Three-layer data service bidirectional wire-speed forwarding: Support IPv4, IPv6 dual stack, support DS-Lite, 6RD Hardware Acceleration;
- >Support NAPT Hardware Acceleration, Support 8K Hardware acceleration table;

- >Ethernet MAC Support auto-negotiation and manual setting of speed and duplex mode;
- >UNI interface supports 802.1x authentication、STP (Spanning Tree Protocol)/RSTP (Rapid Spanning Tree Protocol) Spanning tree protocol processing;
- >Provides QoS guarantee for different priority services through SLA constraints, Policy, queue management, scheduling / congestion avoidance, and drop management;
- >Support inlet-based flow control, For services that exceed traffic, you can choose packet loss or Pause frame backpressure;
- >Support QoS function;

* Wifi features

- >Technical standard: IEEE802.11b, IEEE802.11g, IEEE802.11n;
- >Modulation Mode: 802.11b: DSSS/BPSK/QPSK/CCK
- >802.11g: OFDM/DSSS/BPSK/QPSK/CCK;
- >802.11n: OFDM/DSSS/BPSK/QPSK/CCK;
- >Rate: 802.11b: Compatible with 11,5.5,2,1 Mbps;
- >802.11g: Compatible with 54,48,36,24,18,12,9,6 Mbps;
- >802.11n: Compatible with 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 Range: 2.4GHz-2.4835GHz;
- >Transmit power: 11b: 17dBm +/- 1.5dBm;
- >11g: 14dBm +/- 1.5dBm;
- >11n: 11dBm +/- 1.5dBm;
- >Receive sensitivity: 11b: 83dBm;
- >11g: 70dBm;
- >11n: 64dBm;
- >Coverage: Reachable 100m ;
- >Safety: 64/128-bits WEP; WPA/WPA2;
- >Number of antennas: 2*5dBi external antenna;

* Support agreements 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 and so on.

Port characteristics:

- * 1PON port
- * 4*10/100/1000Methernet port
- * 1 POTS Voice port
- * 1 way 2.4G WIFI interface

Other features:

Certification: Conform to CE, FCC, ROHS Standards

EMC / EMI :Conform to VCCI Class B, FCC Part 15 B Standards

Safety: Conform to UL 60950 safety regulations

Anti-lightning and anti-surge voltage protection: Conform to ITU-T K.21 Standards

Physical properties:

* Physical size: 210*135*38 (Length×width×height, Unit: mm)

* Power supply: 48V/1.25A

Power consumption: 8W

* Temperature:

Working temperature: -10~55°C

Storage temperature: -30~60°C

Relative humidity: 10~90% (Non-condensing)