

EchoLife EG8247H5 Datasheet 04

EchoLife EG8247H5, an intelligent routing-type ONT

Overview



Device Parameters

Dimensions (H x W x D) (without external antenna and pads)	30 mm x 199 mm x 135 mm (without external antenna and pads)	System power supply	11–14 V DC, 1 A
Weight	About 300 g	Static power consumption	6 W
Operating temperature	0°C to 40°C	Maximum power consumption	12 W
Operating humidity	5% RH to 95% RH (non-condensing)	NNI	GPON
Power adapter input	100–240 V AC, 50/60 Hz	UNI	2POTS+4GE+1CATV+2.4G Wi-Fi+1USB
Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS/CATV	Optical Connector	SC/APC

Interface Parameters

<p>GPON port</p> <ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm ~ -29dBm • Overload optical power: -8 dBm • Wavelengths: US 1310nm, DS 1490nm • Wavelength blocking filter (WBF) of G.984.5 • Flexible mapping between GEM Port and TCONT • GPON: consistent with the SN or password authentication defined in G.984.3 • Bi-directional FEC • SR-DBA and NSR-DBA • Type B (single-homing&dual-homing) 	<p>POTS port</p> <ul style="list-style-type: none"> • Maximum REN: 4 • G.711A/μ, G.729a/b, and G.722 encoding/decoding • T.30/T.38/G.711 fax mode • DTMF • Emergency calls (with the SIP protocol)
<p>Ethernet port</p> <ul style="list-style-type: none"> • Ethernet port-based VLAN tags and tag removal • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning • Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s 	<p>USB port</p> <ul style="list-style-type: none"> • USB2.0
<p>CATV port</p> <ul style="list-style-type: none"> • Frequency Range 54 MHz to 870 MHz • Output resistance 75 ohms • Received average optical power: -8dBm to +2dBm • RF output power: ≥17dBmV/Ch (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital)) 	<p>WLAN</p> <ul style="list-style-type: none"> • IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5 dBi • WMM • Multiple SSIDs • WPS • Air interface rate: 300 Mbit/s

Product Function


Smart interconnection	Smart O&M	Layer 3 features	Security
<ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control 	<ul style="list-style-type: none"> • IPTV video quality diagnosis • eMDI • Rogue ONT detection and isolation from the OLT • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing 	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses <p>Common O&M</p> <ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback

	<ul style="list-style-type: none"> WLAN emulation 		
Multicast	Smart service	Power saving	QoS
<ul style="list-style-type: none"> IGMP v2/v3 proxy/snooping MLD v1/v2 snooping 	<ul style="list-style-type: none"> Scheduled Wi-Fi shutdown Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing Association of one account with two POTS ports 	<ul style="list-style-type: none"> Indicator power saving COC V5 	<ul style="list-style-type: none"> Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation

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