Overview

The Huawei EchoLife EG8247W is a bridging-type ONT used in the Huawei all-optical access solution. It implements ultra-broadband access through the GPON technology.

It provides 4 GE+2 POTS+1 USB+1 RF+2 WiFi (4 GE ports,2 POTS ports,1 USB port,1 RF port,1 2.4G WiFi port and 1 5G WiFi port). The high-performance forwarding capability ensures the service experience of voice, data, CATV and HD video services, and provides users with ideal terminal solutions and future-oriented service support capabilities.

Quick Specification

Table 1 shows the Quick Specification.

Model	EchoLife EG8247W
Dimensions (W x D x H)	184 mm x 295 mm x 82 mm
Weight	About 690 g
Operating Temperature	-40°C to +55°C
Operating Humidity	5%RH to 95%RH (non-condensing)
Power Adapter Input	100–240 V AC, 50–60 Hz
System Power Supply	11-14 V DC, 3 A
Static Power Consumption	8 W
Maximum Power Consumption	32 W
NNI	GPON
UNI	2POTS+4GE+USB+CATV+2.4G Wi-Fi/5G Wi-Fi
Indicators	Power/PON/LOS/TEL/LAN/CATV/WLAN/WPS/USB

Figure 1 shows the appearance of EchoLife EG8247W.

Product Details

Port Parameters

GPON Port	● Class B+ ● Receiver sensitivity: -27 dBm ● Wavelengths: US 1310 nm, DS 1490 nm ● Wavelength blocking filter (WBF) ● 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
Ethernet Port	● 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
POTS Port	● 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)
CATV Port	● Bandwidth 54-870 MHz ● Output resistance 75 ohms
USB Port	● USB 3.0 ● FTP-based network storage ● File/Print sharing based on SAMBA ● DLNA DMS/UPnP AV (media server)
WLAN	● IEEE 802.11 b/g/n (2.4G) ● IEEE 802.11 a/n/ac (5G) ● 3 x 3 MIMO (2.4G) ● 4 x 4 MIMO (5G) ● MU-MIMO ● Antenna gain: 2 dBi ● WMM ● Multiple SSIDs ● WPS ● DFS ● Beamforming ● Band Steering ● Air Time Fairness ● Air interface rate: 450 Mbps (2.4G); 1733 Mbps (5G)

Function List

Smart Interconnection	● Smart Wi-Fi coverage
	● SIP/H.248 auto-negotiation
	● Any port any service
	● Parental control
	● L2/L3(IPv4) forwarding: 1G uplink, 2G downlink
Smart Service	● Smart Wi-Fi sharing:
	Portal/802.1x authentication; SoftGRE-based sharing
	● Association of one account with two POTS ports
Smart O&M	● IPTV video quality diagnosis
	● Variable-length OMCI messages
	● Active/Passive rogue ONT detection and isolation
	● Call emulation, and circuit test and loop-line test
	● PPPoE/DHCP simulation testing
	● WLAN emulation
Layer 3 Features	● 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
Multicast	● IGMP v2/v3 proxy /snooping
	● MLD v1/v2 snooping
	● Multicast services through Wi-Fi
QoS	● Ethernet port rate limitation
	● 802.1p priority
	● SP/WRR/SP+WRR
	● Broadcast packet rate limitation
Security	● SPI firewall
	● Filtering based on MAC/IP/URL addresses
Common O&M	● OMCI/Web UI/TR069
	● Dual-system software backup and rollback
Power Saving	● Indicator power saving
	● Scheduled Wi-Fi shutdown
	● COC V5

Get More Information

Do you have any question about the EchoLife EG8247W?

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● IEEE 802.11 a/n/ac (5G)

● 3 x 3 MIMO (2.4G)

● 4 x 4 MIMO (5G)

● MU-MIMO

● Antenna gain: 2 dBi

● WMM

● Multiple SSIDs

● WPS

● DFS

● Beamforming

● Band Steering

● Air Time Fairness

● Air interface rate: 450 Mbps (2.4G); 1733 Mbps (5G)

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