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### 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.





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## **Product Details**

#### **Port Parameters**

	• Class B+
GPON Port	• 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-based VLAN tags and tag removal
	• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission
Ethernet Port	• QinQ VLAN
	• Limit on the number of learned MAC addresses
	• MAC address learning
	• Maximum REN: 4
	• G.711A/µ, G.729a/b, and G.722 encoding/decoding
POTS Port	• T.30/T.38/G.711 fax mode
	• DTMF
	• Emergency calls (with the SIP protocol)
	Bandwidth 54-870 MHz
CATV Port	• Output resistance 75 ohms
	• USB 3.0
	• FTP-based network storage
USB Port	• File/Print sharing based on SAMBA
	• DLNA DMS/UPnP AV (media server)
	• IEEE 802.11 b/g/n (2.4G)
	• IEEE 802.11 a/n/ac (5G)
	• 3 x 3 MIMO (2.4G)
WLAN	• 4 x 4 MIMO (5G)
	• MU-MIMO
	• Antenna gain: 2 dBi
	• WMM
WLAN	• Multiple SSIDs
	• WPS
	• DFS
	• Beamforming
	Band Steering
	• Air Time Fairness
	• Air interface rate: 450 Mbps (2.4G); 1733 Mbps (5G)



## EchoLife EG8247W Datasheet

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#### **Function List**

	• Smart Wi-Fi coverage
	• SIP/H.248 auto-negotiation
Smart Interconnection	• Any port any service
	• Parental control
	• L2/L3(IPv4) forwarding: 1G uplink, 2G downlink
	Smart Wi-Fi sharing:
Smart Service	Portal/802.1x authentication; SoftGRE-based sharing
	<ul> <li>Association of one account with two POTS ports</li> </ul>
	• IPTV video quality diagnosis
	Variable-length OMCI messages
Succession And States	Active/Passive rogue ONT detection and isolation
Smart O&M	• Call emulation, and circuit test and loop-line test
	• PPPoE/DHCP simulation testing
	WLAN emulation
	PPPoE/Static IP/DHCP
	• NAT/NAPT
	• Port forwarding
Layer 3 Features	• ALG, UPnP
Layer 5 realutes	DDNS/DNS server/DNS client
	• IPv6/IPv4 dual stack, and DS-Lite
	Static/Default routes
	Multiple services on one WAN port
	• IGMP v2/v3 proxy /snooping
Multicast	• MLD v1/v2 snooping
	• Multicast services through Wi-Fi
	• Ethernet port rate limitation
0-5	• 802.1p priority
QoS	• SP/WRR/SP+WRR
	Broadcast packet rate limitation
Committee	• SPI firewall
Security	• Filtering based on MAC/IP/URL addresses
Common O&M	OMCI/Web UI/TR069
Common O&M	• 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? Contact us now via info@hi-network.com.



# EchoLife EG8247W Datasheet

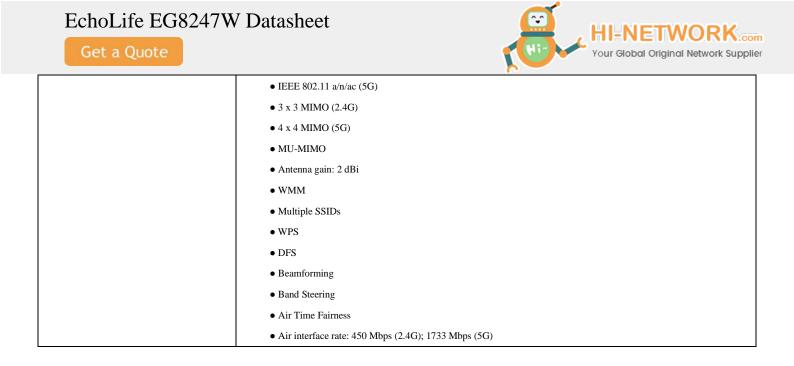
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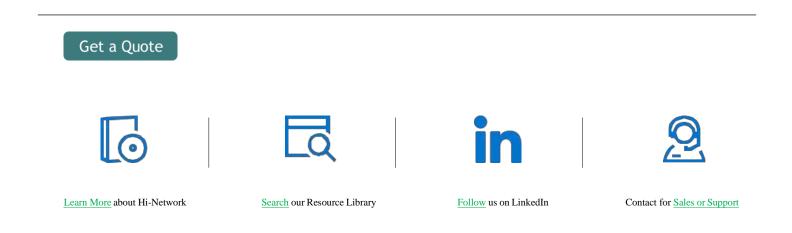
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