

## Overview

The Huawei EchoLife HG8242H 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 ports, 2 POTS ports and 1 RF ports. The high-performance forwarding capability ensures the service experience of voice, CATV, data 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 HG8242H
Dimensions (W x D x H)	220 mm x 160 mm x 32 mm
Weight	About 380 g
Operating Temperature	0°C to +40°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, 2 A
Static Power Consumption	5.5 W
Maximum Power Consumption	14 W
Ports	4GE + 2POTS + CATV
Indicators	POWER/PON/LOS/LAN/TEL/CATV

Figure 1 shows the appearance of EchoLife HG8242H.





## Product Details

### Port Parameters

GPON Ports	<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27dBm</li> <li>• Wavelengths: US 1310 nm, DS 1490 nm</li> <li>• Wavelength blocking filter (WBF)</li> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• GPON: consistent with the SN or password authentication defined in G.984.3</li> <li>• Bi-directional FEC</li> <li>• SR-DBA and NSR-DBA</li> </ul>
Ethernet Port	<ul style="list-style-type: none"> <li>• Ethernet port-based VLAN tags and tag removal</li> <li>• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li> <li>• QinQ VLAN</li> <li>• Limit on the number of learned MAC addresses</li> <li>• MAC address learning</li> <li>• Local switching/isolation based on Ethernet ports</li> <li>• Transparent transmission of IPv6 packets at Layer 2</li> </ul>
POTS Port	<ul style="list-style-type: none"> <li>• Maximum REN: 4</li> <li>• G.711A/μ, G.729a/b, and G.722 encoding/decoding</li> <li>• T.30/T.38/G.711 fax mode</li> <li>• DTMF</li> <li>• Emergency calls (with the SIP protocol)</li> </ul>
CATV Port	<ul style="list-style-type: none"> <li>• Bandwidth 54-870 MHz</li> <li>• Output resistance 75 ohms</li> </ul>

### Function List

Smart Service	<ul style="list-style-type: none"> <li>• Association of one account with two POTS ports</li> <li>• L2 forwarding: 1G uplink, 2G downlink</li> </ul>
Smart Interconnection	<ul style="list-style-type: none"> <li>• SIP/H.248 auto-negotiation</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Ethernet port rate limitation</li> <li>• 802.1p priority</li> <li>• SP/WRR/SP+WRR</li> <li>• Broadcast packet rate limitation</li> <li>• Flow mapping based on the VLAN ID, port ID, or/and 802.1p</li> </ul>
Security	<ul style="list-style-type: none"> <li>• MAC address filtering</li> </ul>
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• Power consumption reduction of idle components in power-saving state</li> </ul>





	<ul style="list-style-type: none"> <li>• COCv4</li> </ul>
Smart O&M	<ul style="list-style-type: none"> <li>• Variable-length OMCI messages</li> <li>• Active/Passive rogue ONT detection and isolation</li> <li>• PPPoE/DHCP simulation testing</li> <li>• Call emulation, and circuit test and loop-line test</li> </ul>
Common O&M	<ul style="list-style-type: none"> <li>• OMCI/Web UI</li> <li>• Dual-system software backup and rollback</li> <li>• 802.1ag Ethernet OAM</li> <li>• Optical link measurement and diagnosis</li> <li>• Loopback check</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• IGMP v2/v3 snooping</li> <li>• MLD v1/v2 snooping</li> <li>• Fast leave</li> <li>• VLAN tag translation, transparent transmission, and removal for downstream multicast packets</li> <li>• IGMP/MLD protocol packet rate limitation</li> </ul>

## Get More Information

Do you have any question about the EchoLife HG8242H?

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).

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	<ul style="list-style-type: none"> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• GPON: consistent with the SN or password authentication defined in G.984.3</li> <li>• Bi-directional FEC</li> <li>• SR-DBA and NSR-DBA</li> </ul>
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