

## Overview

Huawei EchoLife HG8120C is an Optical Network Terminal (ONT) used in Huawei's FTTH solution. By using GPON technology, ultra-broadband access is provided for home and SOHO users. It provides 4FE+1POTS ports.

The HG8120C features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. Therefore, the HG8120C provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

## Quick Specification

Table 1 shows the Quick Specification.

Model	EchoLife HG8120C
Dimensions (H x W x D)	176 mm x 138 mm x 28 mm
Weight	< 500 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
Network-side Ports	GPON
User-side Ports	4FE + 1POTS
Static Power Consumption	5.5 W
Maximum Power Consumption	7.5 W
Indicators	POWER/PON/LOS/LAN/TEL

Figure 1 shows the appearance of EchoLife HG8120C.





## Product Details

### Interface Parameters

GPON Port	<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>• 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>

### Product Function

Smart Interconnection	<ul style="list-style-type: none"> <li>• SIP/H.248 auto-negotiation</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>
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>
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>
Security	<ul style="list-style-type: none"> <li>• MAC address filtering</li> </ul>
Common O&M	<ul style="list-style-type: none"> <li>• OMCI/Web UI</li> </ul>





	<ul style="list-style-type: none"> <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 HG8120C?

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

## Specification

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Weight	< 500 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
NNI	GPON
UNI	4FE + 1POTS
Static Power Consumption	5.5 W
Maximum Power Consumption	7.5 W
Indicators	POWER/PON/LOS/LAN/TEL
GPON Port	<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> </ul>



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	<ul style="list-style-type: none"><li>• QinQ VLAN</li><li>• Limit on the number of learned MAC addresses</li><li>• MAC address learning</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>

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