

## Overview

The Huawei EchoLife EG8145V5 is a routing-type ONT in the Huawei all-optical access solution. It uses the GPON technology to implement ultra-broadband access for users. It provides 4 GE+1 POTS+1 USB+2 WiFi(4 GE ports, 1 POTS port, 1 USB port, 1 2.4G WiFi port and 1 5G WiFi port). The high forwarding performance ensures the user experience of voice, data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

## Quick Specification

Table 1 shows the Quick Specification.

Model	EchoLife EG8145V5
Dimensions (H x W x D)	30 mm x 173 mm x 120 mm (without external antenna and pads)
Weight	About 250 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, 1.5A
Static power consumption	5.3 W
Maximum power consumption	18 W
NNI	GPON
UNI	1POTS + 4GE + 2.4G/5G Wi-Fi + 1USB
Optical Connector	SC/APC

Figure 1 shows the appearance of EchoLife EG8145V5.





## Product Details

### Interface Parameters

GPON Port	<ul style="list-style-type: none"> <li>● Class B+</li> <li>● Receiver sensitivity: -27dBm ~ -29dBm</li> <li>● Overload optical power: -8 dBm</li> <li>● Wavelengths: US 1310nm, DS 1490nm</li> <li>● Wavelength blocking filter (WBF) of G.984.5</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> <li>● Type B (single-homing&amp;dual-homing)</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>● Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li> <li>● Interoperable with 3rd party device.</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>
USB Port	<ul style="list-style-type: none"> <li>● USB2.0</li> <li>● FTP-based network storage</li> <li>● File/Print sharing based on SAMBA</li> <li>● DLNA function</li> </ul>
WLAN	<ul style="list-style-type: none"> <li>● IEEE 802.11 b/g/n (2.4G)</li> <li>● IEEE 802.11 a/n/ac (5G)</li> <li>● 2 × 2 MIMO (2.4G&amp;5G)</li> <li>● Antenna gain: 5 dBi</li> <li>● WMM/Multiple SSIDs/WPS</li> <li>● 2.4G&amp;5G concurrent</li> <li>● Air interface rate:300 Mbit/s (2.4G); 867 Mbit/s(5G)</li> </ul>

### Product Function

Smart Interconnection	<ul style="list-style-type: none"> <li>● Smart Wi-Fi coverage</li> </ul>
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	<ul style="list-style-type: none"> <li>• SIP/H.248 auto-negotiation</li> <li>• Any port any service</li> <li>• Parental control</li> <li>• L2/L3 (IPv4) forwarding: 1G uplink, 2G downlink</li> </ul>
Smart Service	<ul style="list-style-type: none"> <li>• Scheduled Wi-Fi shutdown</li> <li>• Smart Wi-Fi sharing:                             <ul style="list-style-type: none"> <li>– Portal/802.1x authentication</li> <li>– SoftGRE-based sharing</li> </ul> </li> </ul>
Smart O&M	<ul style="list-style-type: none"> <li>• IPTV video quality diagnosis</li> <li>• eMDI</li> <li>• Rogue ONT detection and isolation from the OLT</li> <li>• Call emulation, and circuit test and loop-line test</li> <li>• PPPoE/DHCP simulation testing</li> <li>• WLAN emulation</li> </ul>
Layer 3 Features	<ul style="list-style-type: none"> <li>• PPPoE/Static IP/DHCP</li> <li>• NAT/NAPT</li> <li>• Port forwarding</li> <li>• ALG, UPnP</li> <li>• DDNS/DNS server/DNS client</li> <li>• IPv6/IPv4 dual stack, DSLite and IPv6 SPI</li> <li>• Static/Default routes</li> <li>• Multiple services on one WAN port</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• IGMP v2/v3 proxy/snooping</li> <li>• MLD v1/v2 snooping</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> </ul>
Security	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Filtering based on MAC/IP/URL addresses</li> <li>• Support WEP, 128-bit WEP, WPA2-PSK, WPAPSK, WPA.</li> </ul>
Common O&M	<ul style="list-style-type: none"> <li>• OMCI/Web UI/TR069</li> <li>• Variable-length OMCI messages</li> <li>• Dual-system software backup and rollback</li> </ul>
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• COC V5</li> </ul>

## Get More Information

Do you have any question about the EchoLife EG8145V5?

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



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NNI	GPON
UNI	1POTS + 4GE + 2.4G/5G Wi-Fi + 1USB
Optical Connector	SC/APC
Indicators	POWER/PON/LOS/LAN/TEL/USB/WLAN/WPS
GPON Port	<ul style="list-style-type: none"> <li>● Class B+</li> <li>● Receiver sensitivity: -27dBm ~ -29dBm</li> <li>● Overload optical power: -8 dBm</li> <li>● Wavelengths: US 1310nm, DS 1490nm</li> <li>● Wavelength blocking filter (WBF) of G.984.5</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> <li>● Type B (single-homing&amp;dual-homing)</li> </ul>
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USB Port	<ul style="list-style-type: none"> <li>● USB2.0</li> <li>● FTP-based network storage</li> </ul>



	<ul style="list-style-type: none"> <li>● File/Print sharing based on SAMBA</li> <li>● DLNA function</li> </ul>
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