

## Overview

The Huawei EchoLife EG8040F5 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 1 GE+3 FE(1 GE port and 3 FE ports). The high forwarding performance ensures the user experience of data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

- Smart service
- Smart interconnection
- Smart O&M

## Quick Specification

Table 1 shows the Quick Specification.

Model	EchoLife EG8040F5
Dimensions (W x D x H)	32 mm x 145 mm x 97 mm (without pads)
Weight	About 140g
Operating Temperature	0°C to 40°C
Operating Humidity	5% to 95% RH (non-condensing)
Network-side Ports	GPON
User-side Ports	1GE + 3FE
Power Adapter Input	100-240V AC, 50/60 Hz
System Power Supply	11-14V (typical value 12 V) DC, 1A
Static Power Consumption	3.7 W
Maximum Power Consumption	5W

Figure 1 shows the appearance of EchoLife EG8040F5.



## Product Details

### Interface Parameters

GPON Port	<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27dBm</li> <li>• Wavelengths: US 1310nm, DS 1490nm</li> <li>• 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> </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> </ul>
WLAN	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n</li> <li>• 2 x 2 MIMO</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM</li> <li>• Multiple SSIDs</li> <li>• WPS</li> </ul>

### Product Function

Smart Interconnection	<ul style="list-style-type: none"> <li>• Any port any service</li> <li>• Parental control</li> </ul>
Smart O&M	<ul style="list-style-type: none"> <li>• eMDI</li> <li>• Variable-length OMCI messages</li> <li>• Active/Passive rogue ONT detection and isolation</li> <li>• PPPoE/DHCP simulation testing</li> </ul>
Layer 3 Features	<ul style="list-style-type: none"> <li>• PPPoE/Static IP/DHCP</li> <li>• NAT/NAPT</li> </ul>



	<ul style="list-style-type: none"> <li>• Port forwarding</li> <li>• ALG, UPnP</li> <li>• DDNS/DNS server/DNS client</li> <li>• IPv6/IPv4 dual stack, and DS-Lite</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 snooping</li> <li>• IGMP v2 proxy</li> <li>• IGMP v3 proxy</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> <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/IP/URL address filtering</li> <li>• SPI firewall</li> <li>• Anti-DoS attack</li> </ul>
Common O&M	<ul style="list-style-type: none"> <li>• OMCI/Web UI/TR069</li> <li>• Dual-system software backup and rollback</li> </ul>
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> </ul>

## Get More Information

Do you have any question about the EchoLife EG8040F5?

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

## Specification

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NNI	GPON
UNI	1GE + 3FE
Optical Connector	SC/APC
Indicators	Power/PON/Internet
GPON Port	<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27 dBm</li> <li>• Overload optical power: -8 dBm</li> <li>• Wavelengths: US 1310 nm, DS 1490 nm</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>• GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li> <li>• FE: Auto-adaptive 10 Mbit/s, 100 Mbit/s</li> </ul>

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