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### Overview

The Huawei EchoLife HG8040H 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. The high-performance forwarding capability ensures the service experience of 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 HG8040H          |
|------------------------------------|---------------------------|
| Dimensions (H x W x D)             | 176 mm x 138.5 mm x 28 mm |
| Weight                             | < 500 g                   |
| Operating Temperature              | 0°C to 40°C               |
| Operating Humidity                 | 5%–95% RH, non-condensing |
| Rated Input Range of Power Adapter | 100–240 V AC, 50/60 Hz    |
| System Power Supply                | 11–14 V DC, 1 A           |
| Static Power Consumption           | 4 W                       |
| Maximum Power Consumption          | 7.5 W                     |
| Network-side Port                  | GPON                      |
| User-side Port                     | 4GE                       |
| Indicator                          | POWER/PON/LOS/LAN         |

Figure 1 shows the appearance of EchoLife HG8040H.



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## **Product Details**

### **Interface Parameters**

| GPON Port     | • Class B+   |
|---------------|--|
|               | • Receiver sensitivity: -27dBm   |
|               | • 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 | • Ethernet port-based VLAN tags and tag removal                              |
|               | • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission                       |
|               | • QinQ VLAN  |
|               | • Limit on the number of learned MAC addresses                               |
|               | • MAC address learning   |
|               | Local switching/isolation based on Ethernet ports                            |
|               | • Transparent transmission of IPv6 packets at Layer 2                        |

### **Product Functions**

| Smart O&M             | Variable-length OMCI messages  |
|-----------------------|--|
|                       | • Active/Passive rogue ONT detection and isolation                     |
|                       | • PPPoE/DHCP simulation testing  |
|                       | • Ethernet port rate limitation  |
|                       | • 802.1p priority  |
| QoS                   | • SP/WRR/SP+WRR  |
|                       | Broadcast packet rate limitation                                       |
|                       | • Flow mapping based on the VLAN ID, port ID, or/and 802.1p            |
| Power Saving          | • Indicator power saving   |
|                       | • Power consumption reduction of idle components in power-saving state |
|                       | • COCv4  |
| Smart Interconnection | • L2 forwarding: 1G uplink, 2G downlink                                |
| Security              | • MAC address filtering  |
| Common O&M            | • OMCI/Web UI  |
|                       | • Dual-system software backup and rollback                             |
|                       | • 802.1ag Ethernet OAM   |
|                       | • Optical link measurement and diagnosis                               |
|                       | • Loopback check   |

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# EchoLife HG8040H Datasheet

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|           | • IGMP v2/v3 snooping  |
|-----------|--|
|           | • MLD v1/v2 snooping   |
| Multicast | • Fast leave   |
|           | • VLAN tag translation, transparent transmission, and removal for downstream multicast packets |
|           | IGMP/MLD protocol packet rate limitation   |

### **Get More Information**

Do you have any question about the EchoLife HG8040H?

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# Specification

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|                                    | • Class B+   |  |  |
|                                    | • Receiver sensitivity: -27dBm   |  |  |
|                                    | • Wavelengths: US 1310 nm, DS 1490 nm  |  |  |
| CDON D                             | • Wavelength blocking filter (WBF)   |  |  |
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|                                    | • Bi-directional FEC   |  |  |
|                                    | • SR-DBA and NSR-DBA   |  |  |
|                                    | • Ethernet port-based VLAN tags and tag removal                              |  |  |
| Ethernet Port                      | • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission                       |  |  |
|                                    | • QinQ VLAN  |  |  |
|                                    | • Limit on the number of learned MAC addresses                               |  |  |
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## EchoLife HG8040H Datasheet

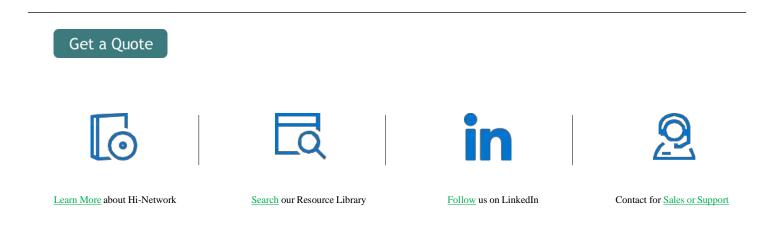
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• Local switching/isolation based on Ethernet ports

• Transparent transmission of IPv6 packets at Layer 2

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