

## Overview

The Huawei EchoLife HN8245Q is an routing-type ONT used in the Huawei all-optical access solution. It uses XG-PON technology to provide ultra-broadband access for users.

It provides 4 GE+2 POTS+2 USB+2 WiFi(4 GE Ethernet ports, 2 POTS ports, 2 USB port, 1 2.4G WiFi port and 1 5G WiFi port) . High-performance forwarding provides VoIP, Internet, 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 HN8245Q
Dimensions (W x D x H)	238mm x 190mm x 26mm (Without the base)
Weight	About 850 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, 3 A
Static Power Consumption	6 W
Maximum Power Consumption	30 W
NNI	XG-PON (SFP+ Optical Module)
UNI	2POTS+4GE+2.4G&5G Wi-Fi+2USB

Figure 1 shows the appearance of EchoLife HN8245Q.





## Product Details

### Port Parameters

<p>XG-PON Port</p>	<ul style="list-style-type: none"> <li>• Class N1/N2a</li> <li>• Receiver sensitivity: -28dBm</li> <li>• Wavelengths: US 1260-1280nm, DS 1575-1580nm</li> <li>• Wavelength blocking filter (WBF)</li> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• SN/Password/SN+Password/Bi-directional authentication based on OMCI</li> <li>• upstream and downstream FEC</li> <li>• SR-DBA and NSR-DBA</li> <li>• 2.5Gbps uplink, 10Gbps downlink</li> </ul>
<p>Ethernet Port</p>	<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>
<p>POTS Port</p>	<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>
<p>USB Port</p>	<ul style="list-style-type: none"> <li>• USB3.0</li> <li>• FTP-based network storage</li> <li>• File/Print sharing based on SAMBA</li> <li>• DLNA DMS/UPnP AV (media server)</li> </ul>
<p>WLAN</p>	<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>• 3 × 3 MIMO (2.4G/5G)</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM / Multiple SSIDs</li> <li>• WPS</li> <li>• 2.4G/5G concurrent</li> <li>• Air interface rate: 450 Mbps (2.4G); 1300 Mbps (5G)</li> </ul>

### Function List

<p>Smart Interconnection</p>	<ul style="list-style-type: none"> <li>• Smart Wi-Fi coverage</li> <li>• SIP/H.248 auto-negotiation</li> <li>• Any port any service</li> </ul>
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	<ul style="list-style-type: none"> <li>• Parental control</li> </ul>
Smart Service	<ul style="list-style-type: none"> <li>• Smart Wi-Fi sharing:                             <ul style="list-style-type: none"> <li>– Portal/802.1x authentication</li> <li>– SoftGRE-based sharing</li> </ul> </li> <li>• Association of one account with two POTS ports</li> </ul>
Smart O&M	<ul style="list-style-type: none"> <li>• IPTV video quality diagnosis</li> <li>• Variable-length OMCI messages</li> <li>• Active/Passive rogue ONT detection and isolation</li> <li>• Call emulation, and circuit test and loop-line test</li> <li>• PPPoE/DHCP simulation testing</li> <li>• Wi-Fi emulation</li> <li>• One-click diagnosis (Web)</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, 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 proxy snooping</li> <li>• MLD v1/v2 snooping</li> <li>• Multicast services through Wi-Fi</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> </ul>
Security	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Filtering based on MAC/IP addresses</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>• COC V5</li> <li>• Scheduled Wi-Fi shutdown</li> </ul>

## Get More Information

Do you have any question about the EchoLife HN8245Q?

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

## Specification

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