



## Overview

The Huawei EchoLife EG8245W5 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+2 POTS+1 USB+2 WiFi (4 GE ports, 2 POTS ports, 1 USB port and 1 2.4G&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-opticalaccess solution and future-oriented service support capability.

- Smart Service
- Smart Interconnection
- Smart O&M

## Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar EG8245W5
Dimensions (H x W x D)	32 mm x 200 mm x 127 mm (without external antenna and pads)
Weight	About 360 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, 1.5 A
Static Power Consumption	6 W
Maximum Power Consumption	18 W
NNI	GPON
UNI	2POTS + 4GE + 2.4G/5G Wi-Fi + 1USB
Optical Connector	SC/APC
Indicators	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS



Figure 1 shows the appearance of OptiXstar EG8245W5.



## Product Details

### Interface Parameters

<p>GPON Port</p>	<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>
<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> <li>• Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li> </ul>
<p>POTS Port</p>	<ul style="list-style-type: none"> <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>• 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)</li> <li>• 4 × 4 MIMO (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), 1733 Mbit/s (5G)</li> </ul>
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## Product Function

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>
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>
Smart Interconnection	<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> <li>• Parental control</li> <li>• L2/L3 (IPv4) forwarding: 1G uplink, 2G downlink</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>
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>
Smart Service	<ul style="list-style-type: none"> <li>• Scheduled Wi-Fi shutdown</li> <li>• Intelligent Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing</li> <li>• Association of one account with two POTS ports</li> </ul>
Security	<ul style="list-style-type: none"> <li>• SPI firewall</li> <li>• Filtering based on MAC/IP/URL addresses</li> </ul>





Multicast	<ul style="list-style-type: none"> <li>• IGMP v2/v3 proxy/snooping</li> <li>• MLD v1/v2 snooping</li> </ul>
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• COC V6</li> </ul>
Smart Wi-Fi Coverage	<ul style="list-style-type: none"> <li>• Configuration-free and PnP for Wi-Fi auxiliary devices (AP)</li> </ul>
Home Network Feature	<ul style="list-style-type: none"> <li>• Visualized home network management</li> <li>• User-defined bandwidth allocation</li> <li>• Band steering</li> <li>• MU MIMO</li> <li>• Wi-Fi optimization &amp; Wi-Fi roaming</li> <li>• Wi-Fi Operations &amp; Maintenance (O&amp;M)</li> <li>• TX Beamforming</li> </ul>

## Get More Information

Do you have any question about the OptiXstar EG8245W5?

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

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