



## Overview

The Huawei EchoLife EG8247W5-8T 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 ports, 2 POTS ports, 1 USB port, 1 CATV port and 2.4G&5G WiFi ports. 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.

- Smart service
- Smart interconnection
- Smart O&M

## Quick Specification

Table 1 shows the Quick Specification.

Model	OptiXstar EG8247W5-8T
Dimensions (H x W x D)	192 mm x 255 mm x 80 mm (with the base) 185 mm x 255 mm x 38 mm (without the base)
Weight	About 770 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, 2 A
Static Power Consumption	9.7 W
Maximum Power Consumption	28 W
NNI	GPON
UNI	2POTS + 4GE + 1CATV + 2.4G/5G Wi-Fi + 1USB
Optical Connector	SC/APC
Indicators	POWER/PON/LOS/LAN/TEL/USB/WLAN/WPS/CATV



Figure 1 shows the appearance of OptiXstar EG8247W5-8T.



## 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> </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>



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>
CATV Port	<ul style="list-style-type: none"> <li>• Frequency Range 45 MHz to 1000 MHz</li> <li>• Output resistance 75 ohms</li> <li>• Received average optical power: -8dBm to +2dBm</li> <li>• RF output power: <math>\geq 17\text{dBmV/Ch}</math></li> </ul> <p>(With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital))</p>
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>• 4 × 4 MIMO (2.4G)</li> <li>• 4 × 4 MIMO (5G)</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM/Multiple SSIDs/WPS</li> <li>• 2.4G&amp;5G concurrent</li> <li>• Air interface rate: 600 Mbit/s (2.4G), 1733 Mbit/s (5G)</li> </ul>

## Product Function

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>
Smart Service	<ul style="list-style-type: none"> <li>• Scheduled Wi-Fi shutdown</li> <li>• Intelligent Wi-Fi sharing:</li> </ul> <p>Portal/802.1x authentication SoftGRE-based sharing</p> <ul style="list-style-type: none"> <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>• 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>
Power Saving	<ul style="list-style-type: none"> <li>• Indicator power saving</li> <li>• COC V7</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>
Layer 3 Features	<ul style="list-style-type: none"> <li>• PPPoE/Static IP/DHCP</li> </ul>





	<ul style="list-style-type: none"> <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>
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>
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>
Home Network Feature	<ul style="list-style-type: none"> <li>• Visualized home network management</li> <li>• Band steering</li> <li>• Wi-Fi optimization &amp; WiFi roaming</li> <li>• Wi-Fi O&amp;M</li> <li>• Tx Beamforming</li> </ul>

## Get More Information

Do you have any question about the OptiXstar EG8247W5-8T?

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

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