

# EchoLife EG8247Q Datasheet

EchoLife EG8247Q, an intelligent routing-type ONT

## Overview



## Device Parameters

<b>Dimensions (H x W x D) (without external antenna and pads)</b>	32 mm x 219 mm x 159 mm (without external antenna and pads)	<b>System power supply</b>	11–14 V DC, 2 A
<b>Weight</b>	About 400 g	<b>Static power consumption</b>	6.6 W
<b>Operating temperature</b>	0°C to 40°C	<b>Maximum power consumption</b>	24 W
<b>Operating humidity</b>	5% RH to 95% RH (non- condensing)	<b>NNI</b>	GPON
<b>Power adapter input</b>	100–240 V AC, 50/60 Hz	<b>UNI</b>	2POTS + 4GE + 2.4G/5G Wi-Fi + 2USB+1CATV
<b>Indicators</b>	POWER/PON/LOS/LAN/TEL /USB/WLAN/WPS/CATV	<b>Optical Connector</b>	SC/APC
<b>Installation mode</b>	On the desk, or on the wall	<b>Compliance certification</b>	CE/WiFi

# Interface Parameters

<b>GPON port</b> <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)</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>	<b>POTS port</b> <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>
<b>Ethernet port</b> <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>	<b>USB port</b> <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>
<b>CATV port</b> <ul style="list-style-type: none"> <li>Frequency Range 54 MHz to 870 MHz</li> <li>Output resistance 75 ohms</li> <li>Received average optical power: -8dBm to +2dBm</li> <li>RF output power: ≥17dBmV/Ch (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital))</li> </ul>	<b>WLAN</b> <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/WPS</li> <li>2.4G/5G concurrent</li> <li>Air interface rate:450 Mbit/s (2.4G);1300 Mbit/s (5G)</li> </ul>

# Product Function


<b>Smart interconnection</b> <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> </ul>	<b>Smart O&amp;M</b> <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> </ul>	<b>Layer 3 features</b> <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>	<b>Security</b> <ul style="list-style-type: none"> <li>SPI firewall</li> <li>Filtering based on MAC/IP/URL addresses</li> </ul>
<b>Humanized design</b> <ul style="list-style-type: none"> <li>Support one button to turn off all LEDs</li> </ul>			<b>Common O&amp;M</b> <ul style="list-style-type: none"> <li>OMCI/Web UI/TR069</li> <li>Variable-length OMCI messages</li> <li>Dual-system software</li> </ul>

	<ul style="list-style-type: none"> <li>WLAN emulation</li> <li>eSight management</li> </ul>		backup and rollback
<b>Multicast</b>	<b>Smart service</b>	<b>Power saving</b>	<b>QoS</b>
<ul style="list-style-type: none"> <li>IGMP v2/v3 proxy/snooping</li> <li>MLD v1/v2 snooping</li> </ul>	<ul style="list-style-type: none"> <li>Scheduled Wi-Fi shutdown</li> <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>	<ul style="list-style-type: none"> <li>Indicator power saving</li> <li>COC V5</li> </ul>	<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>

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