

# EchoLife EG8141A5-10 Datasheet 01

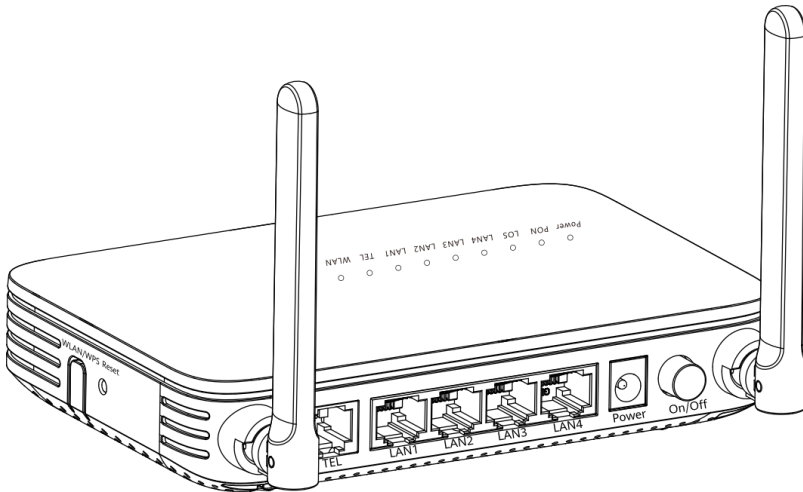
EchoLife EG8141A5-10, an intelligent routing-type ONT

## Overview

The EchoLife EG8141A5-10 is a routing-type ONT in the Huawei all-optical access solution. It uses the GPON/EPON technology to implement ultra-broadband access for users.

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



## Device Parameters

<b>Dimensions (H x W x D) (without external antenna and pads)</b>	32 mm x 145 mm x 97 mm	<b>System power supply</b>	12 V DC, 1 A
<b>Weight</b>	About 155 g	<b>Static power consumption</b>	3.5 W
<b>Operating temperature</b>	0°C to 40°C	<b>Maximum power consumption</b>	12 W
<b>Operating humidity</b>	5% RH to 95% RH (non-	<b>NNI</b>	GPON/EPON

	condensing)		
<b>Power adapter input</b>	100–240 V AC, 50/60 Hz	<b>UNI</b>	1POTS+1GE+3FE +2.4GHz Wi-Fi
<b>Indicators</b>	Power/PON/LOS/LAN/TEL/WLAN/WPS	<b>Optical Connector</b>	SC/APC

## Interface Parameters

<b>GPON/EPON port</b>	<b>WLAN</b>
<ul style="list-style-type: none"> <li>GPON:Class B+ / EPON: PX20+</li> <li>Receiver sensitivity: -27dBm</li> <li>Overload optical power: GPON: -8 dBm/EPON: -3 dBm</li> <li>Wavelengths: US 1310nm, DS 1490nm</li> <li>Wavelength blocking filter (WBF) of G.984.5</li> <li>Flexible mapping between GEM Port and TCONT</li> <li>Authentication mode: SN/Password/LOID (GPON) MAC/Key/LOID (EPON)</li> <li>Bi-directional FEC</li> <li>SR-DBA and NSR-DBA</li> <li>Type B (single-homing &amp; dual-homing)</li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.11 b/g/n</li> <li>2 x 2 MIMO</li> <li>Antenna gain: 2 dBi</li> <li>WMM</li> <li>Multiple SSIDs</li> <li>WPS</li> <li>Air interface rate: 300 Mbit/s</li> </ul>
<b>Ethernet port</b>	<b>POTS port</b>
<ul style="list-style-type: none"> <li>Complying with IEEE 802.3</li> <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>GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li> <li>FE: Auto-adaptive 10 Mbit/s or 100 Mbit/s</li> </ul>	<ul style="list-style-type: none"> <li>Maximum ringer equivalence number (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>

## Product Function


<b>Smart interconnection</b>	<b>Smart O&amp;M</b>	<b>Layer 3 features</b>	<b>Security</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>	<ul style="list-style-type: none"> <li>IPTV video quality diagnosis</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</li> </ul>	<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> </ul>	<ul style="list-style-type: none"> <li>SPI firewall</li> <li>Filtering based on MAC/IP/URL addresses</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>

	testing <ul style="list-style-type: none"> <li>WLAN emulation</li> </ul>	<ul style="list-style-type: none"> <li>Static/Default routes</li> <li>Multiple services on one WAN port</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>Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing</li> <li>Scheduled Wi-Fi shutdown</li> </ul>	<ul style="list-style-type: none"> <li>Indicator power saving</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 and unknown packet limitation</li> </ul>

Copyright © Huawei Technologies Co., Ltd. 2023. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

**Trademarks and Permissions**

 HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

**Notice**

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

**Huawei Technologies Co., Ltd.**

Address: Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website: <http://www.huawei.com>