

# EchoLife EG8012H5 Datasheet 02

EchoLife EG8012H5, a bridging-type ONT

## Overview

The EchoLife EG8012H5 is a bridging-type ONT used in the Huawei all-optical access solution. It implements ultra-broadband access through the GPON technology.

The high-performance forwarding capability ensures the service experience of data and HD video services, and provides users with ideal terminal solutions and future-oriented service support capabilities.

- Smart service
- Smart interconnection
- Smart O&M



## Device Parameters

<b>Dimensions (H x W x D) (without pads)</b>	34 mm x 175 mm x 115 mm	<b>Static power consumption</b>	3.6 W
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<b>Weight</b>	About 220 g	<b>Maximum power consumption</b>	5 W
<b>Operating temperature</b>	0°C to 40°C	<b>NNI</b>	GPON
<b>Operating humidity</b>	5% RH to 95% RH (non-condensing)	<b>UNI</b>	1GE + 1CATV
<b>Power adapter input</b>	100–240 V AC, 50/60 Hz	<b>Optical Connector</b>	SC/APC
<b>System power supply</b>	11–14 V DC, 1 A	<b>Indicators</b>	Power/PON/LOS/LAN/CATV

## Interface Parameters

<b>GPON port</b>	<b>Ethernet port</b>
<ul style="list-style-type: none"> <li>Class B+</li> <li>Receiver NNI sensitivity: -27dBm ~ -29dBm</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> </ul>	<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>Local switching/isolation based on Ethernet ports</li> <li>Transparent transmission of IPv6 packets at Layer 2</li> </ul>
	<b>CATV port</b>
	<ul style="list-style-type: none"> <li>Bandwidth 54-870 MHz</li> <li>Output resistance 75 ohms</li> </ul>

## Product Function


<b>Smart O&amp;M</b>	<b>Power saving</b>	<b>Common O&amp;M</b>	<b>Security</b>
<ul style="list-style-type: none"> <li>Variable-length OMCI messages</li> <li>Rogue ONT detection and isolation from the OLT</li> <li>PPPoE/DHCP simulation testing</li> </ul>	<ul style="list-style-type: none"> <li>Indicator power saving</li> <li>COCV4</li> </ul>	<ul style="list-style-type: none"> <li>OMCI/Web UI</li> <li>Dual-system software backup and rollback</li> <li>802.1ag Ethernet OAM</li> <li>Optical link measurement and diagnosis</li> <li>Loopback check</li> </ul>	<ul style="list-style-type: none"> <li>MAC address filtering</li> </ul>
<b>QoS</b>	<b>Multicast</b>		
<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> <li>Flow mapping based on the VLAN ID, port ID, or/and 802.1p</li> </ul>	<ul style="list-style-type: none"> <li>IGMP v2/v3 snooping</li> <li>MLD v1/v2 snooping</li> <li>Fast leave</li> <li>VLAN tag translation, transparent transmission, and removal for downstream multicast packets</li> <li>IGMP/MLD protocol packet rate limitation</li> </ul>		

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