

EG8120L5 Datasheet 01

Intelligent routing-type ONT

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Overview

The Huawei EchoLife EG8120L5 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 1 GE+1 FE+1 POTS(1 GE port, 1 FE port and 1 POTS port). 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

Dimensions (H x W x D) (without pads)	32 mm x 145 mm x 97 mm	Static power consumption	3.8 W
Weight	About 145 g	Maximum power consumption	5 W

Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	1POTS + 1GE + 1FE
Power adapter input	100–240 V AC, 50/60 Hz	Optical Connector	SC/APC
System power supply	11–14 V (typical value 12 V) DC, 1 A	Indicators	Power/PON/LOS/LAN2/LAN1/TEL

Interface Parameters

GPON port	
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27 dBm • Overload optical power: -8 dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) of G.984.5 • Flexible mapping between GEM Port and TCONT • GPON: consistent with the SN or password authentication defined in G.984.3 • Bi-directional FEC • SR-DBA and NSR-DBA • Type B (single-homing&dual-homing) 	
Ethernet ports	POTS port
<ul style="list-style-type: none"> • Ethernet port-based VLAN tags and tag removal • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning • GE: Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s • FE: Auto-adaptive 10 Mbit/s, 100 Mbit/s 	<ul style="list-style-type: none"> • Maximum REN: 4 • G.711A/μ, G.729a/b and G.722 encoding/decoding • T.30/T.38/G.711 fax mode • DTMF • Emergency calls (with the SIP protocol)

Product Function


Smart interconnection	Smart O&M	Layer 3 features	QoS
<ul style="list-style-type: none"> • SIP/H.248 auto-negotiation • Any port any service • Parental control 	<ul style="list-style-type: none"> • eMDI • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test 	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p

Security	Multicast	Common O&M	Power saving
<ul style="list-style-type: none"> • MAC/IP/URL address filtering • SPI firewall • Anti-DoS attack 	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • MLD v1/v2 snooping • Fast leave • VLAN tag translation, transparent transmission, and removal for downstream multicast packets • IGMP/MLD protocol packet rate limitation 	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback 	<ul style="list-style-type: none"> • Indicator power saving

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