EchoLife EG8143H5 Datasheet 01

EchoLife EG8143H5, an intelligent routing-type ONT

Overview

The EchoLife EG8143H5 is a routing-type ONT in the Huawei all-optical access solution. It uses the GPON 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

Dimensions (H x W x D) (without external antenna and pads)	34 mm x 190 mm x 135 mm (without external antenna and pads)	**System power supply**	12 V DC, 1 A
Weight	About 330 g	**Static power consumption**	6W
Operating temperature	0°C to 40°C	**Maximum power consumption**	10 W
Operating humidity	5% RH to 95% RH (non-condensing)	**NNI**	GPON
Power adapter input	100–240 V AC, 50/60 Hz	**UNI**	1POTS + 4GE + 1CATV + 2.4G Wi-Fi
Indicators	Power/PON/LOS/LAN/TEL/ WLAN/WPS/CATV	**Optical Connector**	SC/APC

Interface Parameters

GPON port

- Class B+
- Receiver sensitivity: -27dBm
- Overload optical power: -8 dBm
- Wavelengths: US 1310nm, DS 1490nm
- 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)

POTS port

- Maximum ringer equivalence number (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)

Ethernet port

- 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
- Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s

CATV port

- Frequency Range 54 MHz to 870 MHz
- Output resistance 75 ohms
- Received average optical power: -8dBm to +2dBm
- 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))

WLAN

- IEEE 802.11 b/g/n
- 2 x 2 MIMO
- Antenna gain: 5 dBi
- WMM
- Multiple SSIDs
- WPS
- Air interface rate: 300 Mbit/s

Product Function

Smart interconnection	**Smart O&M**	**Layer 3 features**	**Security**

• Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control	• IPTV video quality diagnosis • eMDI • Rogue ONT detection and isolation from the OLT • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation	• 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	• SPI firewall • Filtering based on MAC/IP/URL addresses
			Common O&M • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback
Multicast	**Smart service**	**Power saving**	**QoS**
• IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping	• Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing • Scheduled Wi-Fi shutdown	• Indicator power saving • COC V5	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation

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