EchoLife EG8143A5 Datasheet 03

Intelligent routing-type ONT Date: 2020-12-07

Overview

The EchoLife EG8143A5 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 × 175 mm × 115 mm	**System power supply**	11–14 V DC, 1 A
Weight	About 235 g	**Static power consumption**	5.2 W
Operating temperature	0°C to 40°C	**Maximum power consumption**	8.2 W
Operating humidity	5% RH to 95% RH (non-condensing)	**NNI**	GPON
Optical Connector	SC/APC	**UNI**	1GE + 3FE + 1POTS + 2.4G Wi-Fi + 1CATV
Power adapter input	100–240 V AC, 50/60 Hz	**Indicators**	Power/PON/LOS/LAN/TEL/ WLAN/WPS/CATV

Interface Parameters

GPON port	**WLAN**
• Class B+ • Receiver sensitivity: -27dBm ~ -29dBm • Wavelengths: US 1310nm, DS 1490nm • Wavelength blocking filter (WBF) • 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)	• IEEE 802.11 b/g/n (2.4G) • 2 x 2 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • Air interface rate: 300 Mbit/s
Ethernet port	**POTS port**
• Ethernet port-based VLAN tags and tag removal • 1:1 VLAN, N:1 VLAN, or VLAN transmission • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning	• 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**
• Smart Wi-Fi coverage • Any port any service • Parental control • SIP/H.248 auto-negotiation	• eMDI • Variable-length OMCI messages • Active/Passive rogue ONT	• PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR

Smart service			
• Smart Wi-Fi sharing: 802.1x authentication/Portal, SoftGRE-based sharing	detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test • WLAN emulation	• DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port	• Broadcast packet rate limitation
Security	**Multicast**	**Common O&M**	**Power saving**
• MAC/IP/URL address filtering • SPI firewall • Anti-DoS attack	• IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping	• OMCI/Web UI/TR069 • Dual-system software backup and rollback	• Indicator power saving • Scheduled Wi-Fi shutdown

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