

EchoLife EG8145V5 Datasheet 01 (R20C00)

Huawei EG8145V5, an intelligent routing-type ONT

Overview

The Huawei EG8145V5 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 and data 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)	30 mm x 155 mm x 105 mm	Static power consumption	5 W
Weight	About 220 g	Maximum power consumption	12 W
Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	1POTS+4GE+2.4GHz/5GHz Wi-Fi+1USB
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12 V DC, 1.5 A	Indicators	Power/PON/LOS/LAN1/LAN2/LAN3/LAN4/TEL/USB/WLAN/WPS

Interface Parameters

GPON port	POTS port
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm • 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) 	<ul style="list-style-type: none"> • 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)
	USB port
	<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA function
WLAN	Ethernet port
<ul style="list-style-type: none"> • IEEE 802.11 b/g/n (2.4GHz) • IEEE 802.11 a/n/ac (5GHz) • 2 x 2 MIMO (2.4GHz&5GHz) • Antenna gain: 5 dBi • WMM/Multiple SSIDs/WPS • 2.4GHz&5GHz concurrent • Air interface rate: 300 Mbit/s (2.4GHz), 867 Mbit/s (5GHz) 	<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 • Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s

Product Function


Smart interconnection	Smart O&M	Layer 3 features	Smart service
<ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto- 	<ul style="list-style-type: none"> • IPTV video quality diagnosis 	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP 	<ul style="list-style-type: none"> • Scheduled Wi-Fi shutdown

<ul style="list-style-type: none"> negotiation Any port any service Parental control L2/L3(IPv4) forwarding: 1G uplink, 2G downlink 	<ul style="list-style-type: none"> eMDI Rogue ONT detection and isolation from the OLT Call emulation, and circuit test and loop-line test PPPoE/DHCP simulation testing WLAN emulation 	<ul style="list-style-type: none"> NAT/NAPT Port forwarding ALG, UPnP DDNS/DNS server/DNS client IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI Static/Default routes Multiple services on one WAN port 	<ul style="list-style-type: none"> Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing
			QoS <ul style="list-style-type: none"> Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation
Multicast	Security	Common O&M	Power saving
<ul style="list-style-type: none"> IGMP v2/v3 proxy/snooping MLD v1/v2 snooping 	<ul style="list-style-type: none"> SPI firewall Filtering based on MAC/IP/URL addresses 	<ul style="list-style-type: none"> OMCI/Web UI/TR069 Variable-length OMCI messages Dual-system software backup and rollback 	<ul style="list-style-type: none"> Indicator power saving COC V6

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