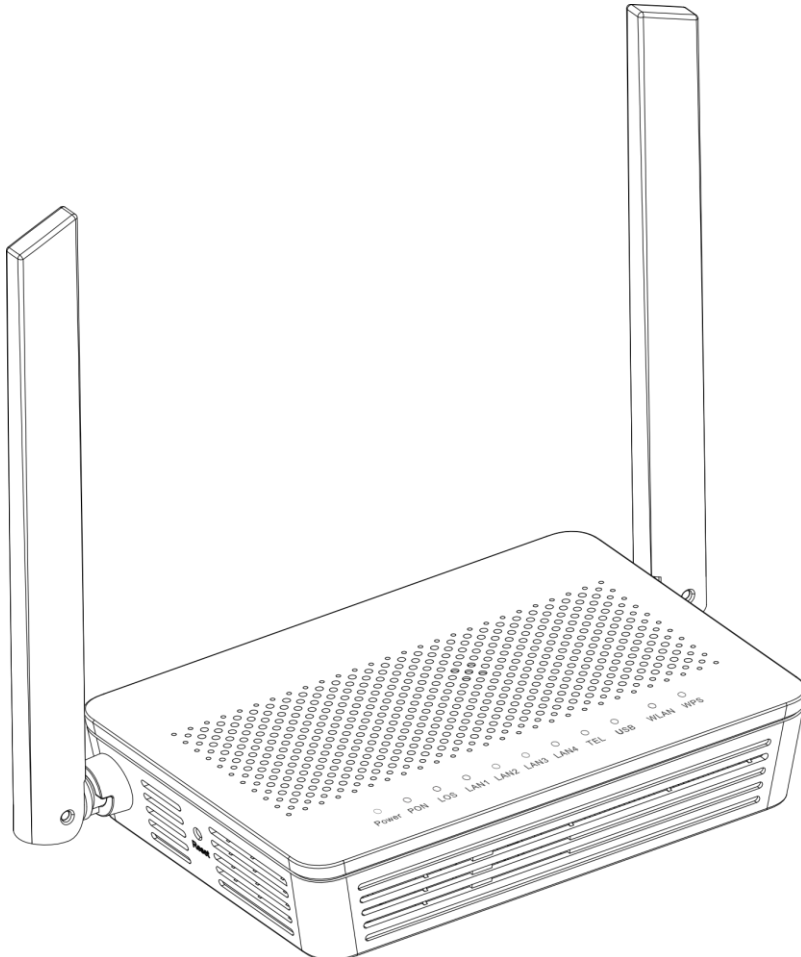# EchoLife EG8145V5-V2 Datasheet 01

Huawei EG8145V5-V2, an intelligent routing-type ONT

Overview

The Huawei EG8145V5-V2 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	11–14 V DC, 1.5 A	**Indicators**	Power/PON/LOS/LAN1/LAN2/LAN3/LAN4/TEL/USB/WLAN/WPS

Interface Parameters

GPON port	**POTS port**
• Class B+ • Receiver sensitivity: -27dBm ~ -29dBm • 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)	• 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)

	USB port
	• USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA function

WLAN	**Ethernet port**
• IEEE 802.11 b/g/n (2.4GHz) • IEEE 802.11 a/n/ac (5GHz) • 2 × 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)	• 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**
• Smart Wi-Fi coverage • SIP/H.248 auto-	• IPTV video quality diagnosis	• PPPoE/Static IP/DHCP	• Scheduled Wi-Fi shutdown

negotiation • Any port any service • Parental control • L2/L3(IPv4) forwarding: 1G uplink, 2G downlink	• eMDI • Rogue ONT detection and isolation from the OLT • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation	• 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	• Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing **QoS** • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
Multicast	**Security**	**Common O&M**	**Power saving**
• IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping	• SPI firewall • Filtering based on MAC/IP/URL addresses	• OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback	• Indicator power saving • COC V6