

EchoLife EG8021V5 Datasheet 01

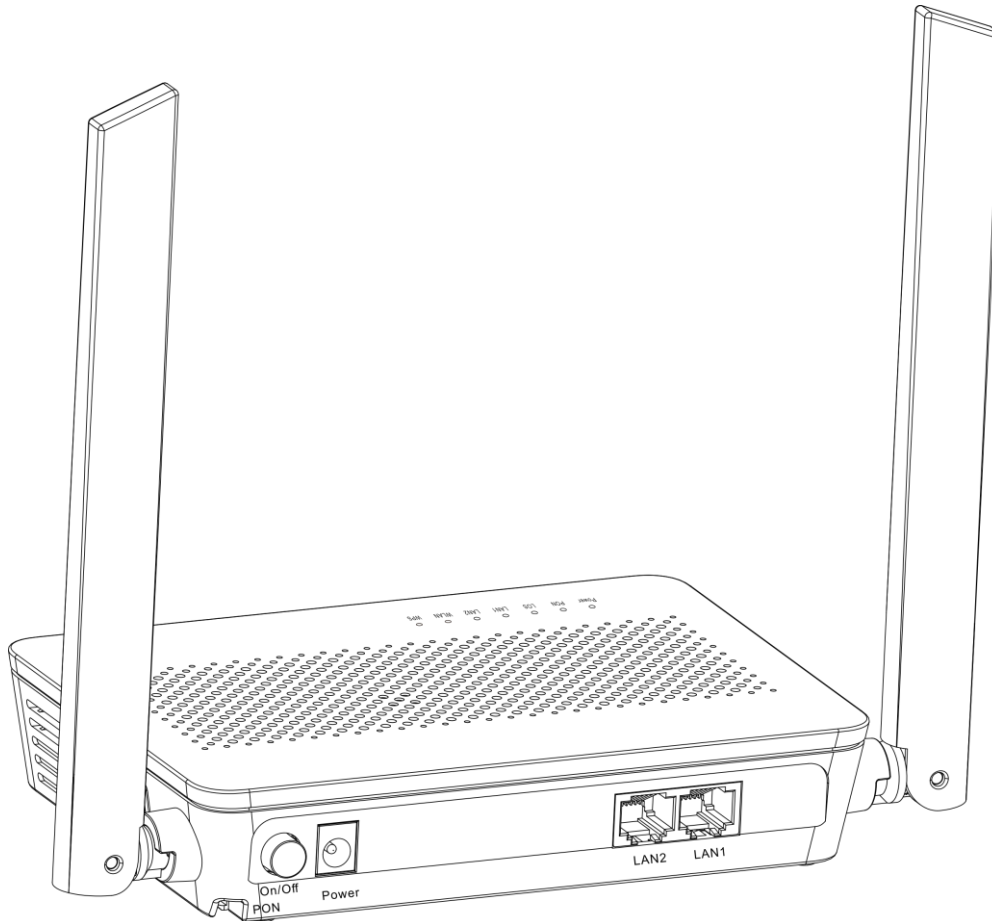
Huawei EG8021V5, an intelligent routing-type ONT

Overview

The Huawei EG8021V5 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 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	4.6 W
Weight	About 196 g	Maximum power consumption	11.6 W
Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	2GE+2.4GHz/5GHz Wi-Fi
Power adapter input	100–240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	12 V DC, 1 A	Indicators	Power/PON/LOS/LAN1/LAN2/WLAN/WPS
Memory	128 MB Flash, 128 MB RAM		

Interface Parameters

GPON port	WLAN
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27 dBm ~-29 dBm • Overload optical power: -8 dBm • Wavelengths: 1310 nm upstream, 1490 nm downstream • 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 	<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)
	Ethernet 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 • 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 • Any port any service • Parental control • L2/L3(IPv4) forwarding: 1G uplink, 2G downlink 	<ul style="list-style-type: none"> • IPTV video quality diagnosis • eMDI • Rogue ONT detection and isolation from the 	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS 	<ul style="list-style-type: none"> • Scheduled Wi-Fi shutdown • Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing

	OLT <ul style="list-style-type: none"> • PPPoE/DHCP simulation testing • WLAN emulation 	client <ul style="list-style-type: none"> • IPv6/IPv4 dual stack, DS-Lite and IPv6 SPI • Static/Default routes • Multiple services on one WAN port 	QoS <ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
Multicast <ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping 	Security <ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses 	Common O&M <ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback 	Power saving <ul style="list-style-type: none"> • Indicator power saving • COC V8

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