EchoLife EG8021V5 Datasheet 01
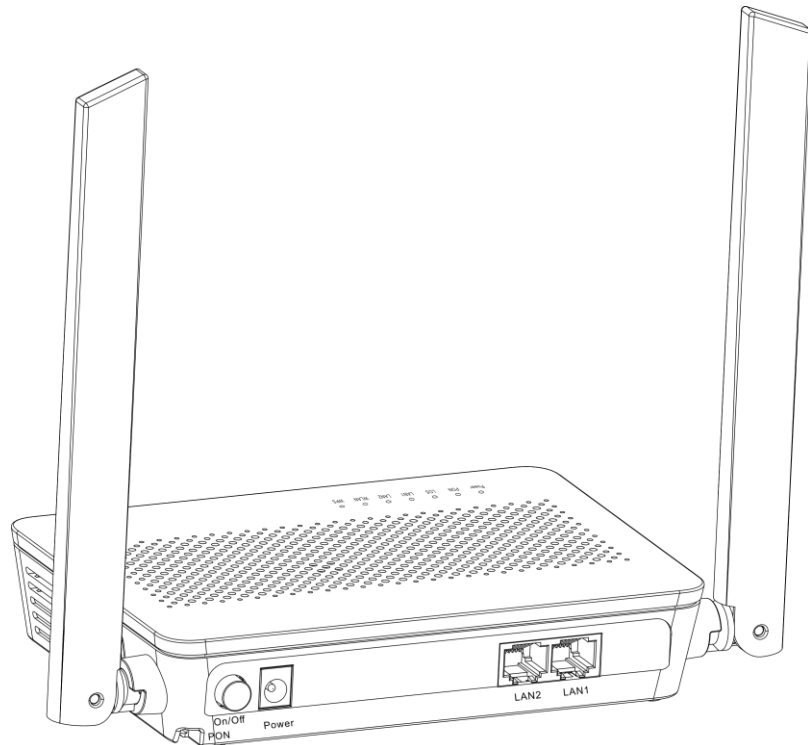
Huawei EG8021V5, an intelligent routing-type ONT

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)	30 mm x 155 mm x 105 mm	Static power consumption	4.6 W

(without external antenna and pads)			
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**
- Class B+ - Receiver sensitivity: -27 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	- 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
	- 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 - Any port any service - Parental control - L2/L3(IPv4) forwarding: 1G uplink, 2G downlink	- IPTV video quality diagnosis - eMDI - Rogue ONT detection and isolation from the OLT - 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, DS-Lite and IPv6 SPI - Static/Default routes - Multiple services on one	- Scheduled Wi-Fi shutdown - Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing
			QoS
			Ethernet port rate limitation

		WAN port	• 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 V8