Datasheet

Huawei HG8247W5, an intelligent routing-type ONT

Overview

The Huawei EchoLife HG8247W5 is a routing-type ONT in the Huawei all-optical access solution. It uses the GPON technology to implement ultra-broadband access for users.

It provides 4 GE+2 POTS+1CATV+1 USB+2 WiFi(4 GE ports, 2 POTS ports, 1CATV port, 1 USB port and 2.4G&5G WiFi port). 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 x 225 mm x 147 mm	**Static power consumption**	6.8 W
Weight	About 300 g	**Maximum power consumption**	24 W
Operating temperature	0°C to 40°C	**NNI**	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	**UNI**	4GE + 2POTS +1CATV + 1USB + 2.4G/5G Wi-Fi
Power adapter input	100–240 V AC, 50/60 Hz	**Optical Connector**	SC/APC
System power supply	11–14 V DC, 2 A	**Indicators**	Power/PON/LOS/LAN/TEL/USB/WLAN/WPS/CATV

Interface Parameters

GPON port	**WLAN**
• Class B+ • Receiver sensitivity: -27 dBm • 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	• IEEE 802.11 b/g/n (2.4G) • IEEE 802.11 a/n/ac (5G) • 2 × 2 MIMO (2.4G) • 4 × 4 MIMO (5G) • Antenna gain: 5 dBi • WMM/Multiple SSIDs/WPS • 2.4G&5G concurrent • Air interface rate: 300 Mbit/s (2.4G), 1733 Mbit/s (5G)
Ethernet port	**POTS 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	• 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	**CATV port**
• USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA function	• Frequency Range 54 MHz to 1000 MHz • Output resistance 75 ohms • Received average optical power: -8dBm to +2dBm • RF output power: ≥17dBmV/Ch (With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 % digital))

Product Function

Layer 3 features	Smart O&M	Smart interconnection	QoS
• PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port	• IPTV video quality diagnosis • eMDI • Rogue ONT detection and isolation from the OLT • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation	• Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control • L2/L3 (IPv4) forwarding: 1G uplink, 2G downlink	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
			Common O&M
			• OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback
Smart service	**Security**	**Power saving**	**Home network feature**
• Scheduled Wi-Fi shutdown • Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing • Association of one account with two POTS ports	• SPI firewall • Filtering based on MAC/IP/URL addresses	• Indicator power saving • COC V6	• Visualized home network management • User-defined bandwidth allocation • Band steering • MU MIMO • Wi-Fi optimization & Wi-Fi roaming • Wi-Fi O&M • Beamforming
	Multicast	**Smart Wi-Fi coverage**	
	• IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping	• Configuration-free and PnP for Wi-Fi auxiliary devices (AP)	