

EG8247W5-8T Datasheet 01

Huawei EG8247W5-8T, an intelligent routing-type ONT

Overview

The Huawei EchoLife EG8247W5-8T 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 ports, 2 POTS ports, 1 USB port, 1 CATV port and 2.4G&5G WiFi ports. 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)	192 mm x 255 mm x 80 mm (with the base)	Static power consumption	9.7 W
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	185 mm x 255 mm x 38 mm (without the base)		
Weight	About 770 g	Maximum power consumption	28 W
Operating temperature	0°C to 40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	2POTS + 4GE + 1CATV+ 2.4G/5G Wi-Fi + 1USB
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
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n (2.4G) • IEEE 802.11 a/n/ac (5G) • 4 x 4 MIMO (2.4G) • 4 x 4 MIMO (5G) • Antenna gain: 2 dBi • WMM/Multiple SSIDs/WPS • 2.4G&5G concurrent • Air interface rate: 600 Mbit/s (2.4G), 1733 Mbit/s (5G)
Ethernet port	POTS 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 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA function 	<ul style="list-style-type: none"> • Frequency Range 45 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
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<ul style="list-style-type: none"> • 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 a single WAN port 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control • L2/L3 (IPv4) forwarding: 1G uplink, 2G downlink 	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
Smart service <ul style="list-style-type: none"> • Scheduled Wi-Fi shutdown • Intelligent Wi-Fi sharing: Portal/802.1x authentication • SoftGRE-based sharing • Association of one account with two POTS ports 	Security <ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses 	Power saving <ul style="list-style-type: none"> • Indicator power saving • COC V7 	Home network feature <ul style="list-style-type: none"> • Visualized home network management • Band steering • Wi-Fi optimization & Wi-Fi roaming • Wi-Fi O&M • Tx Beamforming
	Multicast <ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping 	Common O&M <ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback 	

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