

A Smarter Way for Your Broadband Life

Huawei EG8247H, an intelligent routing-type ONT

Smart
service

Smart
interconnection



Smart O&M

○ Device Parameters

Dimensions (LxWxH)	220 mm x 160 mm x 32 mm (without an external antenna)
Weight	About 420 g
Operating temperature	0°C to 40°C
Operating humidity	5% RH to 95% RH (non-condensing)
Power adapter input	100–240 V AC, 50/60 Hz
System power supply	11–14 V DC, 2 A
Static power consumption	7.5 W
Maximum power consumption	18 W
Ports	2POTS+4GE+CATV+Wi-Fi+USB
Indicators	POWER/PON/LOS/LAN/TEL/USB /WLAN/WPS/CATV

○ Interface Parameters

GPON Port	• Class B+ • Wavelengths: US 1310nm, DS 1490nm • WBF • Bi-directional FEC • SR-DBA and NSR-DBA
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
CATV Port	• Bandwidth 54 MHz to 870 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)
POTS Port	• 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
WLAN	• IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5 dBi • WMM • Multiple SSIDs • WPS

○ Product Function

Smart interconnection

- Smart Wi-Fi coverage
- SIP/H.248 auto-negotiation
- Any port any service
- Parental control
- L2/L3(IPv4) forwarding: 1G uplink, 2G downlink

Smart service

- Smart Wi-Fi sharing:
Portal/802.1x authentication
SoftGRE-based sharing
- Association of one account with two POTS ports

Smart O&M

- Variable-length OMCI messages
- Active/Passive rogue ONT detection and isolation
- Call emulation, and circuit test and loop-line test
- PPPoE/DHCP simulation testing
- WLAN emulation

Layer 3 Features

- 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

Multicast

- IGMP v2/v3 proxy/snooping
- MLD v1/v2 snooping

QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast packet rate limitation

Security

- SPI firewall
- Filtering based on MAC/IP/URL addresses

Common O&M

- OMCI/Web UI/TR069
- Dual-system software backup and rollback

Power Saving

- Indicator power saving
- Scheduled Wi-Fi shutdown