

A Smarter Way for Your Broadband Life

Huawei HG8247U, an intelligent routing-type ONT

Smart
service

Smart
interconnection



Smart O&M

○ Device Parameters

Dimensions (H x W x D)	178 mm x 265 mm x 79 mm
Weight	About 540 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	6.6 W
Maximum power consumption	20.6 W
NNI	GPON
UNI	4GE+2POTS+2.4G/5G Wi-Fi+1USB +1CATV
Indicators	POWER/PON/LOS/TEL/LAN/WLAN/ WPS/USB/CATV

○ Interface Parameters

GPON Port	<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27 dBm • Wavelengths: US 1310 nm, DS 1490 nm • WBF • 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
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
POTS Port	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
CATV Port	<ul style="list-style-type: none"> • Bandwidth 45 MHz to 1000 MHz • Output resistance 75 ohms
WLAN	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n (2.4G) • IEEE 802.11 a/n/ac (5G) • 2 × 2 MIMO (2.4G); 3 × 3 MIMO (5G) • Antenna gain: 2 dBi • WMM/Multiple SSIDs/WPS • 2.4G/5G concurrent • Air interface rate: 300 Mbit/s (2.4G) 1300 Mbit/s (5G)

○ 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

- IPTV video quality diagnosis
- 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, DS-Lite and IPv6 SPI
- Static/Default routes
- Multiple services on one WAN port

Multicast

- IGMP v2/v3 proxy/snooping
- MLD v1/v2 snooping
- Multicast services through Wi-Fi

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

- Dynamic power saving
- Indicator power saving
- Scheduled Wi-Fi shutdown
- COCv6