

# A Smarter Way for Your Broadband Life

Huawei HG8247H, an intelligent routing-type ONT

Smart  
service

Smart  
interconnection



Smart O&M

## ○ Device Parameters

Dimensions (HxWxD)	(220 x 160 x 32)mm (without an external antenna)
Weight	about 1000g
Operating temperature	0°C to +40°C
Operating humidity	5%RH to 95%RH (non-condensing)
Power adapter input	100–240V AC, 50–60Hz
System power supply	11–13V DC, 2 A
Static power consumption	7.5W
Maximum power consumption	18W
Ports	2POTS+4GE+CATV+Wi-Fi+USB
Indicators	POWER/PON/LOS/LAN/TEL/USB /WLAN/WPS/CATV

## ○ Interface Parameters

<b>GPON Port</b>	<ul style="list-style-type: none"> <li>• Class B+</li> <li>• Receiver sensitivity: -27dBm</li> <li>• Wavelengths: US 1310nm, DS 1490nm</li> <li>• WBF</li> <li>• Flexible mapping between GEM Port and TCONT</li> <li>• GPON: consistent with the SN or password authentication defined in G.984.3</li> <li>• Bi-directional FEC</li> <li>• SR-DBA and NSR-DBA</li> </ul>
<b>Ethernet Port</b>	<ul style="list-style-type: none"> <li>• Ethernet port-based VLAN tags and tag removal</li> <li>• 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li> <li>• QinQ VLAN</li> <li>• Limit on the number of learned MAC addresses</li> <li>• MAC address learning</li> </ul>
<b>CATV Port</b>	<ul style="list-style-type: none"> <li>• Bandwidth 54-870 MHz</li> <li>• Output resistance 75 ohms</li> </ul>
<b>POTS Port</b>	<ul style="list-style-type: none"> <li>• Maximum REN: 4</li> <li>• G.711A/μ, G.729a/b, and G.722 encoding/decoding</li> <li>• T.30/T.38/G.711 fax mode</li> <li>• DTMF</li> <li>• Emergency calls (with the SIP protocol)</li> </ul>
<b>USB Port</b>	<ul style="list-style-type: none"> <li>• USB2.0</li> <li>• FTP-based network storage</li> </ul>
<b>WLAN</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n</li> <li>• 2 x 2 MIMO</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM</li> <li>• Multiple SSIDs</li> <li>• WPS</li> </ul>

## ○ Product Function

### Smart interconnection

- Smart Wi-Fi coverage (V300R015C10)
- SIP/H.248 auto-negotiation
- Any port any service
- Parental control (V300R015C00)
- L2/L3(IPv4) forwarding: 1G uplink, 2G downlink

### Smart service

- Smart Wi-Fi sharing: Portal/802.1x authentication (V300R015C10)  
SoftGRE-based sharing (V300R015C10)
- Association of one account with two POTS ports

### Smart O&M

- IPTV video quality diagnosis (V300R015C10)
- 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 (V300R015C00) /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 (V300R015C00)