

# A Smarter Way for Your Broadband Life

Huawei HG8245H, an intelligent routing-type ONT

Smart  
service

Smart  
interconnection

Smart O&M

## ○ Device Parameters

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Dimensions (L x W x H)    | 176 mm x 138.5 mm x 28 mm<br>(without an external antenna) |
| Weight                    | About 260 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, 1.5 A                                          |
| Static power consumption  | 5.5 W                                                      |
| Maximum power consumption | 16.5 W                                                     |
| Ports                     | 2POTS + 4GE +2.4G Wi-Fi + 1USB                             |
| Indicators                | POWER/PON/LOS/LAN/TEL/USB<br>/WLAN/WPS                     |

## ○ Interface Parameters

|                      |                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GPON Port</b>     | <ul style="list-style-type: none"><li>• Class B+</li><li>• Receiver sensitivity: -27 dBm</li><li>• Wavelengths: US 1310 nm, DS 1490 nm</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>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><li>• Air interface rate: 300 Mbps</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

- Indicator power saving
- Scheduled Wi-Fi shutdown (V300R015C00)