

# A Smarter Way for Your Broadband Life

Huawei HG8245U, an intelligent routing-type ONT

Smart  
service

Smart  
interconnection



Smart O&M

## ○ Device Parameters

|                           |                                    |
|---------------------------|------------------------------------|
| Dimensions (L x W x H)    | 265 mm x 176 mm x 82 mm            |
| Weight                    | About 1500 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  | 8 W                                |
| Maximum power consumption | 20.5 W                             |
| Ports                     | 2POTS+4GE+2.4G/5G Wi-Fi+1USB       |
| Indicators                | POWER/PON/LOS/TEL/LAN/WLAN/WPS/USB |

## ○ 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> <li>• File/Print sharing based on SAMBA</li> <li>• DLNA DMS/UPnP AV (media server)</li> </ul>                                                                                                                                                                                      |
| <b>WLAN</b>          | <ul style="list-style-type: none"> <li>• IEEE 802.11 b/g/n (2.4G)</li> <li>• IEEE 802.11 a/n/ac (5G)</li> <li>• 2 × 2 MIMO (2.4G); 3 × 3 MIMO (5G)</li> <li>• Antenna gain: 2 dBi</li> <li>• WMM/Multiple SSIDs/WPS</li> <li>• 2.4G/5G concurrent</li> <li>• Air interface rate:<br/>300 Mbit/s (2.4G)<br/>1300 Mbit/s (5G)</li> </ul>                                       |

## ○ 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

- Indicator power saving
- Scheduled Wi-Fi shutdown
- COCv5