A Smarter Way
for Your Broadband Life

Huawei HG8245Q , an intelligent routing-type ONT

Smart
service

Smart
interconnection

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Smart O&M

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O Device Parameters

Dimensions (H x W x D)	285 mm x 174 mm x 70 mm
Weight	About 1000 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, 3 A
Static power consumption	6.5 W
Maximum power consumption	26 W
Ports	2POTS + 4GE + 2.4G/5G Wi-Fi + 2USB

O Interface Parameters

GPON Port	• 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	• 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	• 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 • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)

WLAN	• IEEE 802.11 b/g/n (2.4G)
	• IEEE 802.11 a/n/ac (5G)
	• 3 × 3 MIMO
	• Antenna gain: 2 dBi
	• WMM
	• Multiple SSIDs
	• WPS
	• 2.4G/5G concurrent
	• Air interface rate:
	   450 Mbps (2.4G)
	   1300 Mbps (5G)

O 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)

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