A Smarter Way
for Your Broadband Life

Huawei HG8245H, an intelligent routing-type ONT

Smart service

Smart interconnection

Smart O&M

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○ Device Parameters

Dimensions (HxWxD)	(176 x 138.5 x 28)mm (without an external antenna)
Weight	about 500g
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	11–14V DC, 2 A
Static power consumption	5W
Maximum power consumption	15.5W
Ports	2POTS+4GE+Wi-Fi+USB
Indicators	POWER/PON/LOS/LAN/TEL/USB /WLAN/WPS

○ Interface Parameters

GPON Port	• Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310nm, DS 1490nm • 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
WLAN	• IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS

○ 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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