

## Overview

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Huawei HG8247H, an intelligent routing-type ONT.

### Product Details

Huawei HG8247H provides these features:

#### GPON Port

- Class B+
- Receiver sensitivity: -27dBm
- Wavelengths: US 1310 nm, DS 1490 nm
- Wavelength blocking filter (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

#### 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

#### CATV Port

- Bandwidth 54-870 MHz
- Output resistance 75 ohms

#### 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
- Air interface rate: 300 Mbps

#### Smart interconnection

- Smart Wi-Fi coverage (V300R015C10)
- SIP/H.248 auto-negotiation
- Any port any service
- Parental control (V300R015C10)
- 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**

- 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/DHCP simulation testing
- WLAN emulation
- 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)

# Specification

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<b>HG8247H Specification</b>	
<b>Dimensions (L x W x H)</b>	220 mm x 160 mm x 32 mm (without an external antenna)
<b>Operating temperature</b>	0°C to 40°C
<b>Operating humidity</b>	5% RH to 95% RH (non-condensing)
<b>Power adapter input</b>	100–240 V AC, 50/60 Hz
<b>System power supply</b>	11–14 V DC, 2 A
<b>Static power consumption</b>	7.5 W
<b>Maximum power consumption</b>	18 W
<b>Ports</b>	2POTS + 4GE + CATV + Wi-Fi + USB
<b>Indicators</b>	POWER/PON/LOS/LAN/TEL/USB/WLAN/WPS/CATV

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