A Smarter Way
for Your Broadband Life

EchoLife HG8245H5, an intelligent routing-type ONT

Smart
service

Smart
interconnection

Smart O&M

HUAWEI

Device Parameters

Dimensions (HxWxD)	30 mm x 168 mm x 115 mm (without external antenna and pads)
Weight	About 220 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 A
Static power consumption	4 W
Max. power consumption	12 W
NNI	GPON
UNI	2POTS + 4GE + 2.4G Wi-Fi+ 1USB
Optical connector	SC/APC
Indicators	POWER/PON/LOS/LAN/TEL/USB /WLAN/WPS

Interface Parameters

GPON Port	• Class B+ • Receiver sensitivity: -27 dBm • Overload optical power: -8 dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) of G.984.5 • 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 • Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s
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 function
WLAN	• IEEE 802.11 b/g/n • 2 x 2 MIMO • Antenna gain: 5 dBi • WMM • Multiple SSIDs • WPS • Air interface rate:300 Mbit/s

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

• Scheduled Wi-Fi shutdown
• 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
• eMDI
• Rogue ONT detection and isolation from the OLT
• 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 /snooping
• MLD v1/v2 snooping

QoS	Security
• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation	• SPI firewall • Filtering based on MAC/IP/URL addresses

Common O&M	Power Saving
• OMCI/Web UI/TR069 • Variable-length OMCI messages • Dual-system software backup and rollback	• Indicator power saving

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