A Smarter **Way**
for Your Broadband Life

Huawei EG8040H5, an intelligent bridging-type ONT

Smart service, interconnection, and O&M

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Device Parameters

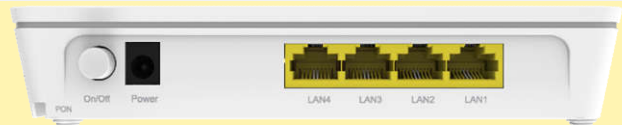|			
Dimensions (H x W x D)	30 mm x 168 mm x 115 mm	Static power consumption	2.8 W
Weight	About 220 g	Maximum power consumption	4.7 W
Operating temperature	0°C to +40°C	NNI	GPON
Operating humidity	5% RH to 95% RH (non-condensing)	UNI	4GE
Power adapter input	100 – 240 V AC, 50/60 Hz	Optical connector	SC/APC
System power supply	11–14 V DC, 1 A	Indicators	POWER/PON/LOS/LAN
Installation Mode	On the desk, or on the wall		

Interface Parameters

GPON Port

- Class B+
- Receiver sensitivity: -27dBm
- Overload optical power: -8 dBm
- Wavelengths: US 1310nm, DS 1490nm
- 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
- Type B (single-homing & dual-homing)

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
- Local switching/isolation based on Ethernet ports
- Transparent transmission of IPv6 packets at Layer 2

Product Function

Smart O&M	• Variable-length OMCI messages • Rogue ONT detection and isolation from the OLT • PPPoE/DHCP simulation testing • eSight management
QoS	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p
Power Saving	• Indicator power saving • Power consumption reduction of idle components in power-saving state • COC V5

Smart service	• L2 forwarding: 1G uplink, 2G downlink
Security	• MAC address filtering
Common O&M	• OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loopback check
Multicast	• IGMP v2/v3 snooping • MLD v1/v2 snooping • Fast leave • VLAN tag translation, transparent transmission, and removal for downstream multicast packets • IGMP/MLD protocol packet rate limitation

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