

A Smarter Way for Your Broadband Life

Huawei HG8040H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



Device Parameters

Dimensions (L x W x H)	176 mm x 138.5 mm x 28 mm	System power supply	11–14 V DC, 1 A
Weight	About 230 g	Static power consumption	4 W
Operating temperature	0°C to +40°C	Maximum power consumption	7.5 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE
Power adapter input	100 – 240 V AC, 50/60 Hz	Indicators	POWER/PON/LOS/LAN

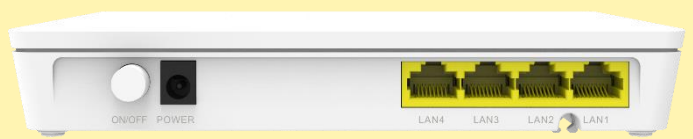
Interface Parameters

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



Product Function

Smart O&M

- Variable-length OMCI messages
- Active/Passive rogue ONT detection and isolation
- PPPoE/DHCP simulation testing

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
- COCv4

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