

A SMARTER WAY for Your Broadband Life

Huawei HG8541M, an intelligent routing-type ONT

Smart Service

Smart Interconnection



Smart O&M

○ Device Parameters

Dimensions (H x W x D)	156mm × 125mm × 30mm	System power supply	11V ~ 14V DC , 1 A
Weight	< 500 g	Static power consumption	5.1 W
Operating temperature	0°C ~ +40°C	Maximum power consumption	9.8 W
Operating humidity	5% RH ~ 95% RH ,(non-condensing)	Ports	1GE+3FE+1POTS
Power adapter input	170V ~ 240V AC , 50/60Hz	Indicators	POWER/PON/LOS/LAN/TEL

○ Interface Parameters

PON Port

- Class B+/PX20+, Class C+/PX20
- Receiver sensitivity: -27dBm
- Operating wevelengths: US 1310nm, DS 1490nm
- WBF
- Flexible mapping between GEM Port and TCONT
- GPON consistent with: SN/Password/LOID(GPON) ; MAC/Key/LOID(EPON)
- Bi-directional FEC (Forward Error Correction)
- SR-DBA, NSR-DBA

Ethernet Port

- Ethernet port-based VLAN tags
- 1:1 VLAN/N:1 VLAN/VLAN transmission
- QinQ VLAN
- MAC addresses limitation
- MAC addresses learning
- Ethernet ports switching
- IPv6 transparent transmission

POTS Port

- Maximum REN: 4
- G.729A/u, G.729a/b and G.722 encoding/decoding
- T.30/T.38/G.711 fax mode
- DTMF
- Emergency calls (with SIP protocol)

○ Product Function

Smart O&M

- IPTV video quality diagnosis
- Rogue ONT detection and isolation
- PPPoE/DHCP simulation testing
- Call emulation, and circuit test
- Variable-length OMCI messages

Smart Interconnection

- SIP/H.248 auto-negotiation
- Any port Any service
- Parental control

QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast packet rate limitation

O&M

- OMCI/Web UI/TR069
- Dual-system software backup and rollback

Layer 3 Features

- PPPoE/Static IP/DHCP
- NAT/NAPT
- Port forwarding
- ALG/UPnP
- DDNS/DNS server/DNS Client
- IPv6/IPv4 dual stack, DS-Lite
- Static/Default routes
- RIPv2
- Multiple services on one WAN port

Multicast

- IGMP v2/v3 snooping
- IGMP v2/v3 proxy
- MLD v1/v2 snooping

Security

- SPI firewall
- DoS attack protection
- MAC/IP/URL addresses

Power Saving

- Dynamic power saving
- Indicator power saving