A Smarter **Way**
for Your Broadband Life

Huawei HG8310M, an intelligent bridging-type ONT

Smart service, interconnection, and O&M

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Device Parameters

Dimensions (H x W x D)	(115 x 94 x 27) mm (V300R015C00 and earlier) (82 x 90 x 27) mm (V300R015C10)	Static power consumption	3W (V300R015C00) 2W (V300R015C10)
Weight	＜500 g	Max power consumption	3.5W (V300R015C00) 2.5W (V300R015C10)
Operating temperature	0°C～+40°C	Power supply	11V～14V DC, 0.5A
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1GE
Power adapter input	100V～240V AC, 50Hz～60Hz	Indicators	POWER/PON/LOS/LAN

Interface Parameters

GPON Port

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

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	Smart O&M	· Variable-length OMCI messages · Active/Passive rogue ONT detection and isolation · PPPoE/DHCP simulation testing
Security	· MAC address filtering	O&M	· OMCI/Web UI · Dual-system software backup and rollback · 802.1ag Ethernet OAM · Optical link measurement and diagnosis · Loopback check
Power Saving	· Indicator power saving · Power consumption reduction of idle components in power-saving state	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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