A Smarter Way
for Your Broadband Life

Huawei HG8110H，an intelligent bridging-type ONT

Smart service, interconnection, and O&M

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● Device Parameters

Dimensions (H x W x D)	(134 x 115 x 27) mm	System power supply	11–14 V DC, 1A
Weight	< 500 g	Static power consumption	3.5W
Operating temperature	0°C to +40°C	Maximum power consumption	5.5W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1GE + 1POTS
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN/TEL

● Interface Parameters

GPON Port	Ethernet Port	POTS 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-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 · Transparent transmission of IPv6 packets at Layer 2	· 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)

● Product Function

Smart interconnection	· SIP/H.248 auto-negotiation	Smart O&M	· Variable-length OMCI messages · Active/Passive rogue ONT detection and isolation · PPPoE/DHCP simulation testing · Call emulation, and circuit test and loop-line test
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	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
Security	· MAC address filtering		
Power Saving	· Indicator power saving · Power consumption reduction of idle components in power-saving state · COCV4	Common O&M	· OMCI/Web UI · Dual-system software backup and rollback · 802.1ag Ethernet OAM · Optical link measurement and diagnosis · Loopback check

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