

A Smarter Way for Your Broadband Life

Huawei HG8012H, an intelligent bridging-type ONT

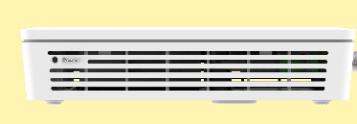
Smart service, interconnection, and O&M



● Device Parameters

Dimensions (L x W x H)	115 mm x 134 mm x 30 mm	System power supply	11–14 V DC, 1 A
Weight	About 200 g	Static power consumption	3 W
Operating temperature	0°C to +40°C	Maximum power consumption	6 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1GE + 1CATV
Power adapter input	100 – 240 V AC, 50/60 Hz	Indicators	POWER/PON/LOS/LAN/CATV

● Interface Parameters

GPON Port	Ethernet Port	CATV Port
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Bandwidth 54-870 MHz Output resistance 75 ohms  

● Product Function

Smart O&M	<ul style="list-style-type: none"> Variable-length OMCI messages Active/Passive rogue ONT detection and isolation PPPoE/DHCP simulation testing 	Security	<ul style="list-style-type: none"> MAC address filtering OMCI/Web UI Dual-system software backup and rollback 802.1ag Ethernet OAM Optical link measurement and diagnosis Loopback check
QoS	<ul style="list-style-type: none"> 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 	Common O&M	<ul style="list-style-type: none"> 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
Power Saving	<ul style="list-style-type: none"> Indicator power saving Power consumption reduction of idle components in power-saving state COCV4 	Multicast	