

A Smarter Way for Your Broadband Life

Huawei HG8012H, an intelligent bridging-type ONT

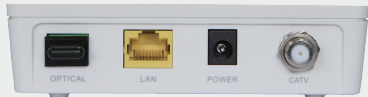
Smart service, interconnection, and O&M



● Device Parameters

Dimensions (H x W x D)	(134 x 115 x 30) mm	System power supply	11–14 V DC, 1A
Weight	< 500 g	Static power consumption	3W
Operating temperature	0°C to +40°C	Maximum power consumption	6W
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
• 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 • Local switching/isolation based on Ethernet ports • Transparent transmission of IPv6 packets at Layer 2	• Bandwidth 54-870 MHz • Output resistance 75 ohms  

● Product Function

Smart O&M	• Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing	Security	• MAC address filtering
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	Common 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 • COCV4	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