A Smarter Way for Your Broadband Life

Huawei HG8012H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M

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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

- 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

Ethernet Port

- 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

CATV Port

- 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
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
Power Saving	• Indicator power saving • Power consumption reduction of idle components in power-saving state • COCV4
Security	• MAC address filtering
Common O&M	• OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loopback check
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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