

A Smarter Way for Your Broadband Life

Huawei HG8242H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



Device Parameters

Dimensions (L x W x H)	220 mm x 160 mm x 32 mm	System power supply	11–14 V DC, 2 A
Weight	About 380 g	Static power consumption	5.5 W
Operating temperature	0°C to +40°C	Maximum power consumption	14 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE + 2POTS + CATV
Power adapter input	100–240 V AC, 50/60 Hz	Indicators	POWER/PON/LOS/LAN/TEL /CATV

Interface Parameters

GPON Port	Ethernet Port	POTS 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-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	- 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)
		CATV Port
		- Bandwidth 54-870 MHz - Output resistance 75 ohms

Product Function

Smart Service	- Association of one account with two POTS ports - L2 forwarding: 1G uplink, 2G downlink	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
Smart interconnection	SIP/H.248 auto-negotiation	Common O&M	- OMCI/Web UI - Dual-system software backup and rollback 802.1ag Ethernet OAM - Optical link measurement and diagnosis - Loopback check
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		