

A Smarter Way for Your Broadband Life

Huawei HG8242H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



● Device Parameters

Dimensions (H x W x D)	(220 x 160 x 32) mm	System power supply	11–13 V DC, 2A
Weight	< 500 g	Static power consumption	5.5W
Operating temperature	0°C to +40°C	Maximum power consumption	14W
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/CTAV

● Interface Parameters

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

● Product Function

Smart Service	<ul style="list-style-type: none"> • Association of one account with two POTS ports • L2 forwarding: 1G uplink, 2G downlink 	Smart O&M	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • SIP/H.248 auto-negotiation 		Multicast	<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
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"> • OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loopback check
Security	<ul style="list-style-type: none"> • MAC address filtering 			
Power Saving	<ul style="list-style-type: none"> • Indicator power saving • Power consumption reduction of idle components in power-saving state • COCV4 			