

A Smarter Way for Your Broadband Life

Huawei HG8321R, an intelligent routing-type ONT

Smart service

Smart
interconnection



Smart O&M

○ Device Parameters

Dimensions (H x W x D)	135 mm x 115 mm x 27 mm	System power supply	11–14 V DC, 0.5 A
Weight	< 500 g	Static power consumption	4 W
Operating temperature	0° C to +40° C	Maximum power consumption	5.5 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1POTS+1GE+1FE
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN/TEL

○ 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 	<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)

○ Product Function

Smart interconnection	<ul style="list-style-type: none"> • SIP/H.248 auto-negotiation • Any port any service • Parental control 	QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation
Smart O&M	<ul style="list-style-type: none"> • IPTV video quality diagnosis (V300R015C10) • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test 	Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port
Security	<ul style="list-style-type: none"> • SPI firewall • Anti-DoS attack • Filtering based on MAC/IP/URL addresses 	Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping
Power Saving	<ul style="list-style-type: none"> • Dynamic power saving • Indicator power saving • COCv4 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback