

# A Easy Way for Your Broadband Life

HG8321V, 1GE+1FE+1POTS+CATV Controllable

Huawei OMCI  
Manageable

CATV  
Controllable



Higher TX/RX  
Sensitivity

## Device Parameters

Dimensions (HxWxD)	27 mm x 90 mm x 82 mm
Weight	About 150 g
Operating temperature	0°C to + 40°C
Operating humidity	5% RH to 95% RH (non-condensing)
Power adapter input	100–240 V AC, 50/60 Hz
System power supply	11 –14 V DC, 1 A
Static power consumption	6 W
Max. power consumption	12 W
NNI	GPON
UNI	1POTS+1GE+1FE+1CATV
Optical connector	SC/APC
Indicators	POWER/PON/LOS/CATV/TEL/LAN2/LAN1
Installation mode	On the desk, or on the wall

## Interface Parameters

### GPON Port

- Class B+
- Receiver sensitivity:-27dBm
- Overload optical power: -8dBm
- Wavelengths: US 1310nm, DS 1490nm
- Wavelength blocking filter (WBF) of G.984.5
- 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
- Type B (single-homing&dual-homing)

### 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
- Auto adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s

### CATV Port

- Frequency Range 54 MHz to 870 MHz
- Output resistance 75 ohms
- Received average optical power:8dBm to +2dBm
- RF output power:  $\geq 17\text{dBmV/Ch}$   
(With RF source analog channel power input = 20dBmV/ch, and 40 analog / 63 digital channels (4.3% OMI analog, 2.15 %digital))

### POTS Port

- Maximum REN: 4
- G.711A/ $\mu$ , 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

- SIP/H.248 auto-negotiation
- Any port any service
- Parental control
- L2/L3(IPv4) forwarding: 1G uplink, 2G downlink

### Smart O&M

- VoIP
- Rogue ONT detection and isolation from the OLT
- Call emulation, and circuit test and loop-line test
- PPPoE/DHCP simulation testing

### Layer 3 Features

- PPPoE/Static IP/DHCP
- NAT/NAPT
- Port forwarding
- ALG, UPnP
- IPv6/IPv4 dual stack, and DS-Lite
- Static/Default routes
- Multiple services on one WAN port

### QoS

- Firewall Level Configuration
- IP Filter Configuration
- MAC Filter Configuration

### Security

- Device Access Control
- Dos Function
- WAN Access Control

### Common O&M

- OMCI/Web UI/TR069
- Variable-length OMCI