

# A Smarter Way for Your Broadband Life

Huawei EG8145V5, an intelligent routing-type ONT

Smart  
service

Smart  
interconnection

Smart O&M



# Device Parameters

Dimensions (H x W x D)	30 mm x 173 mm x 120 mm (without external antenna and pads)
Weight	About 250 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, 1.5 A
Static power consumption	5.3 W
Max. power consumption	18 W
NNI	GPON
UNI	1POTS+4GE+2.4G/5G Wi-Fi+1USB
Optical connector	SC/UPC, SC/APC
Indicators	POWER/PON/LOS/LAN/TEL/USB/WLAN/WPS
Installation mode	On the desk, or on the wall
Compliance certification	CE/WiFi

# Product Function

## Smart interconnection

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

## Smart service

- Scheduled Wi-Fi shutdown
- Smart Wi-Fi sharing:  
Portal/802.1x authentication  
SoftGRE-based sharing

## Smart O&M

- IPTV video quality diagnosis
- eMDI
- Rogue ONT detection and isolation from the OLT
- Call emulation, and circuit test and loop-line test
- PPPoE/DHCP simulation testing
- WLAN emulation

## Layer 3 Features

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

## Multicast

- IGMP v2/v3 proxy/snooping
- MLD v1/v2 snooping

## QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast packet rate limitation

## Security

- SPI firewall
- Filtering based on MAC/IP/URL addresses

## Common O&M

- OMCI/Web UI/TR069
- Variable-length OMCI messages
- Dual-system software backup and rollback

## Power Saving

- Indicator power saving
- COC V5

# Interface Parameters

<b>GPON Port</b>	<ul style="list-style-type: none"><li>Class B+</li><li>Receiver sensitivity: -27 dBm</li><li>Overload optical power: -8 dBm</li><li>Wavelengths: US 1310 nm, DS 1490 nm</li><li>Wavelength blocking filter (WBF) of G.984.5</li><li>Flexible mapping between GEM Port and TCONT</li><li>GPON: consistent with the SN or password authentication defined in G.984.3</li><li>Bi-directional FEC</li><li>SR-DBA and NSR-DBA</li><li>Type B (single-homing&amp;dual-homing)</li></ul>
<b>Ethernet Port</b>	<ul style="list-style-type: none"><li>Ethernet port-based VLAN tags and tag removal</li><li>1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li><li>QinQ VLAN</li><li>Limit on the number of learned MAC addresses</li><li>MAC address learning</li><li>Auto-adaptive 10 Mbit/s, 100 Mbit/s or 1000 Mbit/s</li></ul>
<b>POTS Port</b>	<ul style="list-style-type: none"><li>Maximum REN: 4</li><li>G.711A/μ, G.729a/b and G.722 encoding/decoding</li><li>T.30/T.38/G.711 fax mode</li><li>DTMF</li><li>Emergency calls (with the SIP protocol)</li></ul>
<b>USB Port</b>	<ul style="list-style-type: none"><li>USB2.0</li><li>FTP-based network storage</li><li>File/Print sharing based on SAMBA</li><li>DLNA function</li></ul>
<b>WLAN</b>	<ul style="list-style-type: none"><li>IEEE 802.11 b/g/n (2.4G)</li><li>IEEE 802.11 a/n/ac (5G)</li><li>2 × 2 MIMO (2.4G&amp;5G)</li><li>Antenna gain: 5 dBi</li><li>WMM/Multiple SSIDs/WPS</li><li>2.4G&amp;5G concurrent</li><li>Air interface rate:300 Mbit/s (2.4G); 867 Mbit/s(5G)</li></ul>

