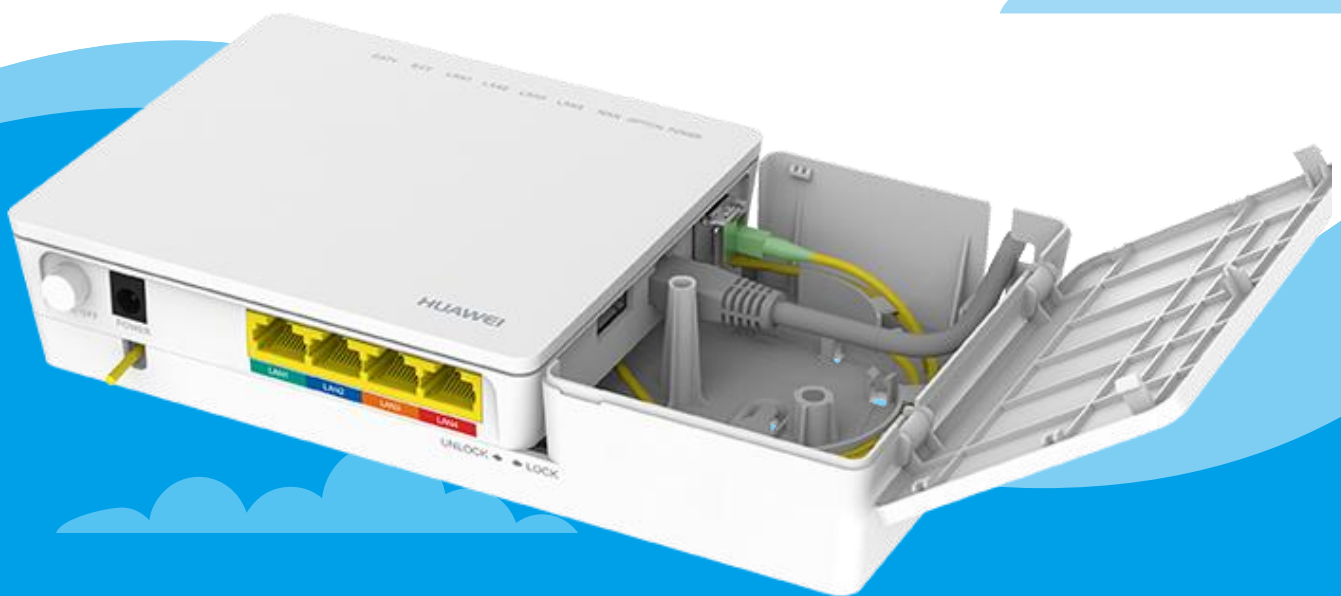


# A Smarter Way for Your Broadband Life

Huawei HG8040P, an intelligent P2P ONT

Smart service, interconnection, and O&M



## Device Parameters

Dimensions (D x W x H)	134 x 114 x 27 (mm) 211 x 115 x 41 (mm) (with fiber tray)	System power supply	12V DC, 0.5 A
Weight	< 500 g	Static power consumption	3.8 W
Operating temperature	0°C to 40°C	Maximum power consumption	5.8 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	EXT/LAN/WAN/OPTICAL/ POWER

## Interface Parameters

### Optical Interface

- Standard optical interfaces
- Maximum reach: 20 km
- Comply with SFF-8472
- Wavelengths: US 1310 nm, DS 1490 nm
- Minimum receiver sensitivity: -23.5 dBm
- Maximum overload optical power: -6 dBm

### WAN Interface

- 1000 Base-X SFP
- 10/100 Base-T Ethernet port (with an RJ-45 connector)

### LAN Interface

- Four 10/100/1000 BASE-T Ethernet ports (each with an RJ-45 connector), complying with IEEE 802.3u/802.3x
- Automatic MDI/MDIX and speed sensing
- EXT1 10/100 BASE-T port (with an RJ-45 connector)
- Automatic MDI/MDI-X and speed sensing

### LED Indicators

#### Power indicator:

- On (green): powered on
- On (red): faulty hardware
- Off: powered off

#### Optical indicator:

- Off: normal
- Blinking: abnormal

#### WAN indicator:

- Off: powered off or network port not connected
- Blinking: data transmitted
- On (green): connected to a 1000 Mbit/s network

#### EXT/LAN indicators 1 to 4:

- Off: powered off or network port not connected
- On: network port connected but no data transmitted
- Blinking: data transmitted

# Product Function

<b>Layer 2 features</b>	<ul style="list-style-type: none"> <li>Ethernet port-based VLAN tags and tag removal</li> <li>Unicast packet forwarding by MAC address+VLAN</li> <li>MAC address learning and aging</li> <li>BPDU transparent transmission by default</li> </ul>	<b>Layer 3 features</b>	<ul style="list-style-type: none"> <li>Static IP address configuration for route WAN interfaces</li> <li>PPPoE clients and IP address obtaining for route WAN interfaces through PPPoE</li> <li>DHCP clients and IP address obtaining for route WAN interfaces through DHCP</li> <li>DHCP client with options for auto configuration and upgrade</li> <li>Specify 802.1p for route WAN interfaces</li> <li>Copy IPTOS to 802.1p for route WAN interfaces</li> </ul>
<b>Multicast</b>	<ul style="list-style-type: none"> <li>Fast leaving</li> <li>IGMP V2&amp;V3 snooping</li> <li>Packet filtering and forwarding by VLAN+multicast MAC address</li> <li>Up to 255 multicast groups</li> <li>Limitation on the rate of IGMP messages</li> <li>MLDv1 messages in Query, Report, and Done states</li> <li>MLDv2 messages in Query and Report states</li> <li>MLD snooping in IPv6 L2 transparent transmission</li> </ul>		Queue scheduling : <ul style="list-style-type: none"> <li>Eight SP queues</li> </ul>
<b>802.1ag</b>	<ul style="list-style-type: none"> <li>Comply with the IEEE 802.1ag protocol/CFM</li> <li>CC, LB, and LT functions</li> <li>Alarm status and log recording for errors detected by CC</li> <li>Transparent transmission of CFM high-level messages in upstream and downstream directions (VLAN translation rules are the same as those of common data packets.)</li> </ul>	<b>Security</b>	<ul style="list-style-type: none"> <li>Anti-DoS attack</li> <li>MAC address filtering</li> <li>WAN-side ONT access based on IP address filtering</li> </ul>
		<b>Y.1731</b>	<ul style="list-style-type: none"> <li>Single-ended ETH-LM (as the receiving MEP)</li> <li>Two-way ETH-DM (as the receiving MEP)</li> </ul>

# Product Function

## O&M

- Management and configuration via Web/TR069/HTTP/HTTPS
- ONT information query including:
  - Product type, product description, software version,hardware version, CPU usage, and memory usage
  - Optical status, transmit power, receive power, temperature, bias current, and voltage
  - Ethernet port statistics, status including the port number, duplex mode, rate, and connection status
- ACS URL configuration
- Configuration of the SSL digital certificate of TR069
- Configuration file upload, backup, and download
- Default configuration restoration
- Device upgrade
- Software dual backup and rollback
- Log display and download
- Fault information collection and download
- Hardware fault detection
- PING,TRACERT diagnosis, PPPoE dialing simulation, DHCP simulation
- IPTV diagnosis

# Visual Overview



## Visual Overview

