

# EchoLife



## HG8447 Home Gateway

The EchoLife HG8447, an optical network terminal (ONT), is a high-end home gateway in Huawei FTTH solution. By using the GPON technology, ultra-broadband access is provided for home and SOHO users. The HG8447 provides four POTS ports, four GE/FE auto-adapting Ethernet ports, one CATV port and one Wi-Fi port. The HG8447 features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. Therefore, the HG8447 provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

### Product Highlights

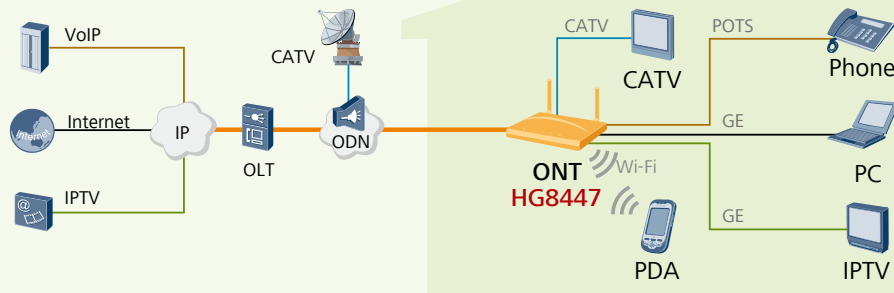
- **Plug-and-play (PnP):** Internet, IPTV and VoIP services can be deployed by one click on the NMS and on-site configuration is not required.
- **Remote diagnosis:** Remote fault locating is implemented by the loop-line test of POTS ports, call emulation and PPPoE dialup emulation initiated by the NMS.
- **Link monitoring:** E2E link detection is achieved using 802.1ag Ethernet OAM.
- **High speed forwarding:** GE line rate forwarding in the bridge scenario and 900 Mbit/s forwarding in the NAT scenario.
- **Green energy-saving:** 25% power consumption is saved with highly integrated system on chipset (SOC) solution, in which, a single chip integrates with PON, voice, gateway and LSW modules.

*Digital Home,  
Creative Life*

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## Network Diagram



## Key Features

### GPON features

- Class B+ optical module
- Secure authentication mode: SN, password or SN+password
- Upstream/downstream FEC

### Voice features

- SIP and H.248 protocols
- Media stream and signaling stream separation

### Multicast features

- IGMP V2&V3 snooping/IGMP proxy

### Wi-Fi features

- 802.11b/g/n, certified by the Wi-Fi Alliance

### CATV feature

- Remotely CATV port enabling/disabling and remotely query of the CATV port status

### Routing features

- NAT function
- Internet, IPTV and VoIP services are automatically bound to ONT ports
- Virtual server, port trigger, DMZ, and DDNS

### Maintenance features

- Local management using Web and remote management using TR069 and OMCI
- Optical power monitoring
- 802.1ag Ethernet OAM

- Loop-line test of POTS ports, call emulation and PPPoE dialup emulation

### Reliability features

- Dual systems for software protection
- Type B protection and rogue ONT detection
- Lithium battery backup and backup battery monitoring

### Green energy-saving features

- Dynamic power consumption adjustment
- With a backup battery, the guaranteed services can be selected flexibly

## Product Specifications



Dimensions(W x D x H)	268 mm x 213 mm x 34 mm
Port	4POTS+4GE+1USB+1CATV+1Wi-Fi
Average power consumption	13.5 W
Operating environment	Temperature: 0°C ~ +40°C Humidity: 5%–95%, non-condensing
Power supply	Adapter input: 100–240 V AC, 50–60Hz Adapter output: 11–14 V DC, 2 A
Weight	About 800g (including the power adapter)

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