

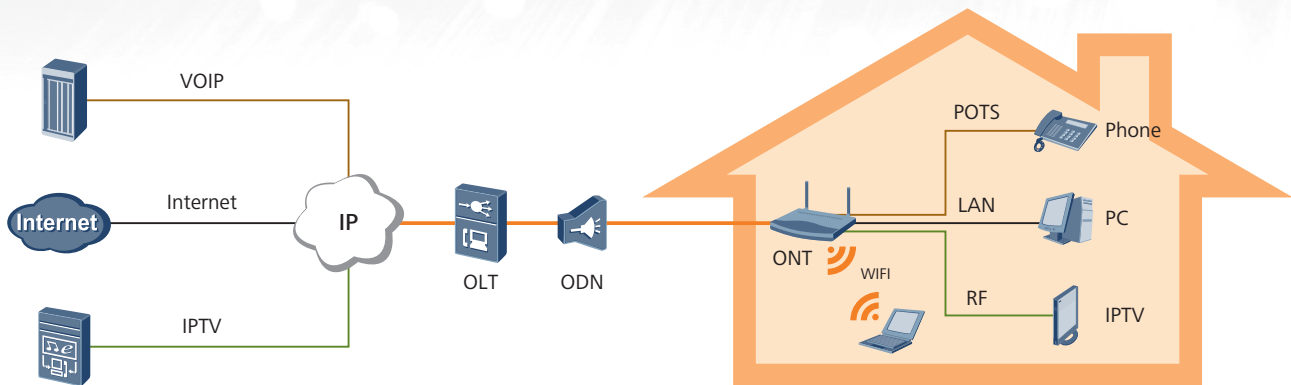


EchoLife ONT series

Smart Connected / Intelligent O&M / Intelligent power-saving

EchoLife Optical Network Terminal (ONT) series products are home-side devices in Huawei's FTTH solutions, supporting ultra-bandwidth access using GPON technologies for home or Small Office/Home Office (SOHO) users. EchoLife ONT series products provide POTS ports and Ethernet ports that support the Fast Ethernet (FE)/Gigabit Ethernet (GE) auto-sensing function. With strong forwarding capability, these ports ensure user experience in voice, data, and High-Definition (HD) video services, facilitate ideal terminal solutions for FTTH deployment, and support future-oriented services. EchoLife ONT series products are categorized into Intelligent bridging, bridging + voice, and gateway ONTs.

Application Scenarios



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.

Key Features

PON 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 feature

- IGMP V2&V3 snooping/IGMP proxy

Wi-Fi feature

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

Routing features

- NAT function
- Internet, IPTV and VoIP services are automatically bound to ONT ports

- Virtual server, port trigger, DMZ, and DDNS

Reliability features

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

CATV feature

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

Ethernet features

- VLAN filtering, VLAN transparent transmission,
- VLAN N:1 aggregation and VLAN 1:1 translation

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
- Reactive and proactive intelligent rogue ONT isolation
- Remote upgrad and smart protection

Green engery-saving features

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

Intelligent Bridging ONTs

Bridging ONTs provide only the Layer 2 forwarding function and support few port types, featuring simple service modes. Typical bridging ONTs are HG8010H\HG8040F.



HG8010H



HG8040H



HG8012H

Specifications

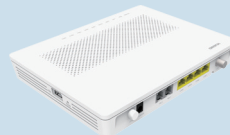
Product	HG8010H	HG8040H	HG8012H
(WxDxH)	117mm×95mm×27mm	176mm×138.5mm×28mm	135mm×115mm×30mm
Service Interface	1GE	4 x GE	1 x GE + CATV
Weight	<500 g	<1 Kg	<500g
Operating environment	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing
Power supply	Adapter input: 100V~240V AC, 50Hz~60Hz	Adapter input: 100V~240V AC, 50Hz~60Hz	Adapter input: 100V~240V AC, 50Hz~60Hz
	Adapter output: 11V~14V DC, 0.5A	Adapter output: 11V~14V DC, 1A	Adapter output: 11V~14V DC, 1A
Average power consumption	3.8w	4.9w	3.5w

Bridging + Voice ONTs

Compared with bridging ONTs, bridging + voice ONTs are added with POTS ports, supporting voice functions. Typical bridging + voice ONTs are HG8240H and HG8242H.



HG8240H



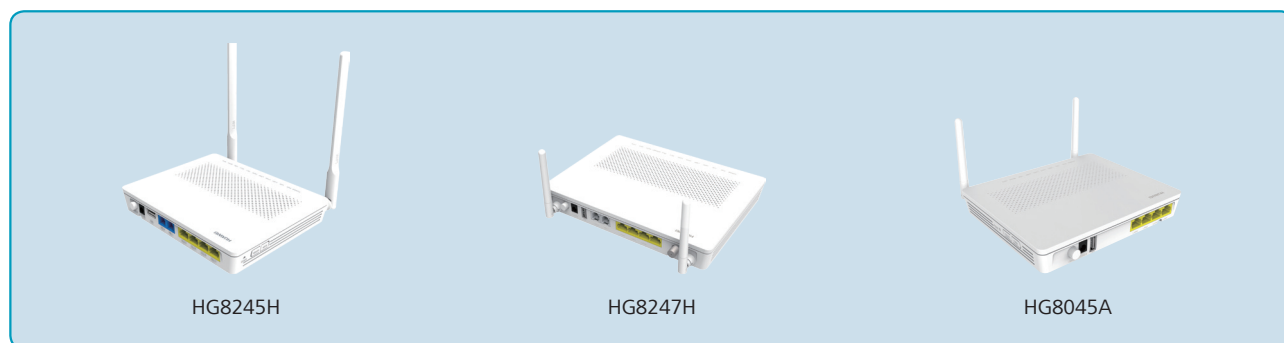
HG8242H

Specifications

Product	HG8240H	HG8242H
(W×D×H)	176mm×138.5mm×28mm	220mm×160mm×32mm
Service Interface	4GE+2POTS	2POTS+4GE+1RF
Weight	<1K g	<1K g
Operating environment	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing	Temperature: 0°C ~ +40°C Humidity: 5%~95%, non-condensing
Power supply	Adapter input: 100V ~ 240V AC, 50Hz ~ 60Hz	Adapter input: 100V ~ 240V AC, 50Hz ~ 60Hz
	Adapter output: 11V ~ 14V DC, 1A	Adapter output: 11V ~ 14V DC, 1A
Average power consumption	8w	8w

Gateway ONTs

In the downstream direction, gateway ONTs connect to various terminals using multiple LAN-side ports, providing triple-play services. Multiple Ethernet ports can be connected to personal computers, Set Top Boxes (STBs), or video phones. Telephone ports can be connected to phones or fax machines and Wi-Fi provides connection to a high-speed wireless network. Typical gateway ONTs are HG8245H, HG8247H, and HG8045A.



Specifications

Product	HG8245H	HG8247H	HG8045A
(W×D×H)	176mm×138.5mm×28mm	220mm×160mm×32mm	176mm×138mm×28mm
Service Interface	2xPOTS+4xGE+Wi-Fi+USB	2xPOTS+4xGE+RF+Wi-Fi+USB	4FE+WIFI
Weight	<500g	<1Kg	<500g
Operating environment	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing	Temperature: 0°C ~ +40°C Humidity: 5%-95%, non-condensing
Power supply	Adapter input: 100V~240V AC, 50Hz~60Hz	Adapter input: 100V~240V AC, 50Hz~60Hz	Adapter input: 100V~240V AC, 50Hz~60Hz
	Adapter output: 11V~14V DC, 2A	Adapter output: 11V~14V DC, 2A	Adapter output: 11V~14V DC, 1A
Average power consumption	10.5w	10.5w	6w

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