

A Smarter Way for Your Broadband Life

Huawei EG8010H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



Device Parameters

Dimensions (L x W x H)	83mm x 69mm x 28mm	System power supply	11–14 V DC, 0.5 A
Weight	About 70 g	Static power consumption	2 W
Operating temperature	0°C to +40°C	Maximum power consumption	3.6 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1GE
Power adapter input	100–240 V AC, 50/60 Hz	Indicators	POWER/PON/LOS/LAN

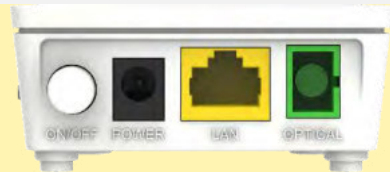
Interface Parameters

GPON Port

- Class B+
- Receiver sensitivity: -27dBm
- Wavelengths: US 1310 nm, DS 1490 nm
- Wavelength blocking filter (WBF)
- 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

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
- Transparent transmission of IPv6 packets at Layer 2



Product Function

Smart O&M

- Variable-length OMCI messages
- Active/Passive rogue ONT detection and isolation
- PPPoE/DHCP simulation testing

QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast packet rate limitation
- Flow mapping based on the VLAN ID, port ID, or/and 802.1p

Power Saving

- Indicator power saving
- Power consumption reduction of idle components in power-saving state
- COCv4

Security

- MAC address filtering

Common O&M

- OMCI/Web UI
- Dual-system software backup and rollback
- 802.1ag Ethernet OAM
- Optical link measurement and diagnosis
- Loopback check

Multicast

- IGMP v2/v3 snooping
- MLD v1/v2 snooping
- Fast leave
- VLAN tag translation, transparent transmission, and removal for downstream multicast packets
- IGMP/MLD protocol packet rate limitation

A Smarter Way for Your Broadband Life

Huawei HG8012H, an intelligent bridging-type ONT



Smart service, interconnection, and O&M



Device Parameters

Dimensions (H x W x D)	134 mm x 115 mm x 30 mm	System power supply	11–14 V DC, 1 A
Weight	< 500 g	Static power consumption	3 W
Operating temperature	0°C to +40°C	Maximum power consumption	6 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1GE + 1CATV
Power adapter input	100 – 240 V AC, 50 – 60 Hz	Indicators	POWER/PON/LOS/LAN /CATV

Interface Parameters

GPON Port	Ethernet Port	CATV Port
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) • 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 	<ul style="list-style-type: none"> • 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 • Local switching/isolation based on Ethernet ports • Transparent transmission of IPv6 packets at Layer 2 	<ul style="list-style-type: none"> • Bandwidth 54-870 MHz • Output resistance 75 ohms  

Product Function

Smart O&M <ul style="list-style-type: none"> • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing 	Security <ul style="list-style-type: none"> • MAC address filtering
QoS <ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p 	Common O&M <ul style="list-style-type: none"> • OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loopback check
Power Saving <ul style="list-style-type: none"> • Indicator power saving • Power consumption reduction of idle components in power-saving state • COCV4 	Multicast <ul style="list-style-type: none"> • IGMP v2/v3 snooping • MLD v1/v2 snooping • Fast leave • VLAN tag translation, transparent transmission, and removal for downstream multicast packets • IGMP/MLD protocol packet rate limitation

A Smarter Way for Your Broadband Life

Huawei HG8040H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



● Device Parameters

Dimensions (H x W x D)	(176 x 138.5 x 28) mm	System power supply	11–14 V DC, 1A
Weight	< 500 g	Static power consumption	4W
Operating temperature	0°C to +40°C	Maximum power consumption	7.5W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN

● Interface Parameters

GPON Port

- Class B+
- Receiver sensitivity: -27dBm
- Wavelengths: US 1310nm, DS 1490nm
- Wavelength blocking filter (WBF)
- 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

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
- Local switching/isolation based on Ethernet ports
- Transparent transmission of IPv6 packets at Layer 2



● Product Function

Smart O&M	<ul style="list-style-type: none"> • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing 	Smart interconnection	<ul style="list-style-type: none"> • L2 forwarding: 1G uplink, 2G downlink
	QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p 	Security
Power Saving			<ul style="list-style-type: none"> • Indicator power saving • Power consumption reduction of idle components in power-saving state • COCV4
	Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • MLD v1/v2 snooping • Fast leave • VLAN tag translation, transparent transmission, and removal for downstream multicast packets • IGMP/MLD protocol packet rate limitation 	

A Smarter Way for Your Broadband Life

Huawei EG8240H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



Device Parameters

Dimensions (L x W x H)	176 mm x 138.5 mm x 28 mm (without an external antenna)	System power supply	11–14 V DC, 1 A
Weight	About 240 g	Static power consumption	4 W
Operating temperature	0°C to +40°C	Maximum power consumption	7.8 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE + 2POTS
Power adapter input	100 – 240 V AC, 50/60 Hz	Indicators	POWER/PON/LOS/LAN/TEL

Interface Parameters

GPON Port	Ethernet Port	POTS Port
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) • 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 	<ul style="list-style-type: none"> • 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 • Local switching/isolation based on Ethernet ports • Transparent transmission of IPv6 packets at Layer 2 	<ul style="list-style-type: none"> • Maximum REN: 4 • G.711A/μ, 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 Service	<ul style="list-style-type: none"> • Association of one account with two POTS ports • L2 forwarding: 1G uplink, 2G downlink 	Smart O&M	<ul style="list-style-type: none"> • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test
Smart Interconnection	<ul style="list-style-type: none"> • SIP/H.248 auto-negotiation 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loopback check
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p 	Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • MLD v1/v2 snooping • Fast leave • VLAN tag translation, transparent transmission, and removal for downstream multicast packets • IGMP/MLD protocol packet rate limitation
Security	<ul style="list-style-type: none"> • MAC address filtering 		
Power Saving	<ul style="list-style-type: none"> • Indicator power saving • Power consumption reduction of idle components in power-saving state • CoC v5 		

A Smarter Way for Your Broadband Life

Huawei EG8242H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



Device Parameters

Dimensions (L x W x H)	220 mm x 160 mm x 32 mm	System power supply	11–14 V DC, 2 A
Weight	About 380 g	Static power consumption	5.5 W
Operating temperature	0°C to +40°C	Maximum power consumption	14 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE + 2POTS + CATV
Power adapter input	100–240 V AC, 50/60 Hz	Indicators	POWER/PON/LOS/LAN/TEL /CATV

Interface Parameters

GPON Port	Ethernet Port	POTS Port
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310 nm, DS 1490 nm • Wavelength blocking filter (WBF) • 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 	<ul style="list-style-type: none"> • 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 • Local switching/isolation based on Ethernet ports • Transparent transmission of IPv6 packets at Layer 2 	<ul style="list-style-type: none"> • Maximum REN: 4 • G.711A/μ, G.729a/b, and G.722 encoding/decoding • T.30/T.38/G.711 fax mode • DTMF • Emergency calls (with the SIP protocol)
		CATV Port
		<ul style="list-style-type: none"> • Bandwidth 54-870 MHz • Output resistance 75 ohms

Product Function

Smart Service	<ul style="list-style-type: none"> • Association of one account with two POTS ports • L2 forwarding: 1G uplink, 2G downlink 	Smart O&M	<ul style="list-style-type: none"> • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI • Dual-system software backup and rollback • 802.1ag Ethernet OAM • Optical link measurement and diagnosis • Loopback check
Security	<ul style="list-style-type: none"> • MAC address filtering 	Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • MLD v1/v2 snooping • Fast leave • VLAN tag translation, transparent transmission, and removal for downstream multicast packets • IGMP/MLD protocol packet rate limitation
Power Saving	<ul style="list-style-type: none"> • Indicator power saving • Power consumption reduction of idle components in power-saving state • COCv4 		

A Smarter Way for Your Broadband Life

Huawei HG8110H, an intelligent bridging-type ONT

Smart service, interconnection, and O&M



● Device Parameters

Dimensions (H x W x D)	(134 x 115 x 27) mm	System power supply	11–14 V DC, 1A
Weight	< 500 g	Static power consumption	3.5W
Operating temperature	0°C to +40°C	Maximum power consumption	5.5W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	1GE + 1POTS
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN/TEL

● Interface Parameters

GPON Port	Ethernet Port	POTS Port
<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm • Wavelengths: US 1310nm, DS 1490nm • Wavelength blocking filter (WBF) • 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 	<ul style="list-style-type: none"> • 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 • Transparent transmission of IPv6 packets at Layer 2 	<ul style="list-style-type: none"> • Maximum REN: 4 • G.711A/μ, 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	<ul style="list-style-type: none"> • SIP/H.248 auto-negotiation 	Smart O&M	<ul style="list-style-type: none"> • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p 		Multicast
Security	<ul style="list-style-type: none"> • MAC address filtering 	Common O&M	
Power Saving	<ul style="list-style-type: none"> • Indicator power saving • Power consumption reduction of idle components in power-saving state • COCV4 		