

Huawei ONT Products Datasheet



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Overview




ONT (Optical network terminal), is a product in the XPON network access solution. Huawei EchoLife series provides intelligent routing-type Optical Network Terminals (ONT) in Huawei's FTTH solution that provides ultra-broadband access for home users by using GPON technology.

Models & Appearance

Model	Appearance
Huawei Bridge ONT	
Huawei EG8040H5	 A white, rectangular Huawei EG8040H5 ONT device with a perforated top surface and a front panel featuring a power button, a power jack, and four yellow Ethernet ports.
Huawei EG8240H5	 A white, rectangular Huawei EG8240H5 ONT device with a perforated top surface and a front panel featuring a power button, a power jack, and four yellow Ethernet ports.
Huawei EG8120L	 A white, rectangular Huawei EG8120L ONT device with a perforated top surface and a front panel featuring a power button, a power jack, two yellow Ethernet ports, and two green Ethernet ports.
Huawei EG8010H	 A white, rectangular Huawei EG8010H ONT device with a perforated top surface and a front panel featuring a power button, a power jack, two yellow Ethernet ports, and two green Ethernet ports.

Huawei EG8040H	
Huawei EG8240H	
Huawei EG8242H	
Huawei Gateway ONT without Wi-Fi	
Huawei EG8084P	
Huawei EG8040P	
Huawei EG8080P	
Huawei EG8240P	

Huawei EG8280P	
Huawei Wi-Fi ONT	
Huawei EG8141A5	
Huawei EG8245Q	
Huawei EG8247Q	
Huawei EG8245H5	
Huawei EG8247H5	

Huawei EG8145V5	 A white, compact desktop router with two vertical antennas and a perforated front panel.
Huawei EG8045H	 A white desktop router with two vertical antennas and a perforated front panel, featuring a yellow Ethernet port on the right side.
Huawei EG8245H	 A white desktop router with two vertical antennas and a perforated front panel, featuring a yellow Ethernet port on the right side.
Huawei EG8247H	 A white desktop router with two vertical antennas and a perforated front panel, featuring a yellow Ethernet port on the right side.
Huawei EG8247W	 A white, flat-panel desktop router with a smooth surface and a small antenna on the right side.

Huawei HG8245Q2	
Huawei 10G PON ONT	
Huawei HN8055Q	
Huawei HN8245Q	
Huawei HN8255Ws	

Huawei HG8010H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	115 x 94 x 27 (V300R015C00 and earlier) 82 x 90 x 27 (V300R015C10)	System power supply	11–14 V DC, 0.5 A
Weight	< 500 g	Static power consumption	3 W
Operating temperature	0°C to +40°C	Maximum power consumption	3.5 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	<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 		
Ethernet Port	<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 		

			<ul style="list-style-type: none"> • Limit on the number of learned MAC addresses • MAC address learning • 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 	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

Huawei HG8040H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	176 mm x 138.5 mm x 28 mm	System power supply	11–14 V DC, 1 A

Weight	< 500 g	Static power consumption	4 W
Operating temperature	0°C to +40°C	Maximum power consumption	7.5 W
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	<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 		
Ethernet Port	<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 		
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
		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

Huawei HG8110H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	134 mm x 115 mm x 27 mm	System power supply	11–14 V DC, 1 A
Weight	< 500 g	Static power consumption	3.5 W
Operating temperature	0°C to +40°C	Maximum power consumption	5.5 W
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	<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 		
Ethernet Port	<ul style="list-style-type: none"> • Ethernet port-based VLAN tags and tag removal • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission 		

	<ul style="list-style-type: none"> • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning • Transparent transmission of IPv6 packets at Layer 2 		
POTS Port	<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 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
		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
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Huawei HG8240H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	176 mm x 138.5 mm x 28 mm	System power supply	11–14 V DC, 1 A
Weight	< 500 g	Static power consumption	4 W
Operating temperature	0°C to +40°C	Maximum power consumption	10 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	<ul style="list-style-type: none"> • Class B+ • Receiver sensitivity: -27dBm 		

			<ul style="list-style-type: none"> • 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			<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
POTS Port			<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 O&M	Variable-length OMCI messages	Smart interconnection	<ul style="list-style-type: none"> • SIP/H.248 auto-negotiation

	<ul style="list-style-type: none"> • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Call emulation, and circuit test and loop-line test 	Security	<ul style="list-style-type: none"> • MAC address filtering
		Smart Service	<ul style="list-style-type: none"> • Association of one account with two POTS ports • 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 	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

Huawei HG8242H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	220 mm x 160 mm x 32 mm	System power supply	11–13 V DC, 2 A
Weight	< 500 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	<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 		
Ethernet Port	<ul style="list-style-type: none"> • Ethernet port-based VLAN tags and tag removal 		

			<ul style="list-style-type: none"> • 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
POTS Port			<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 O&M	Variable-length OMCI messages <ul style="list-style-type: none"> • 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
		Security	<ul style="list-style-type: none"> • MAC address filtering
		Smart Service	<ul style="list-style-type: none"> • Association of one account with two POTS ports • L2 forwarding: 1G uplink, 2G downlink
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI

	<ul style="list-style-type: none"> • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation • Flow mapping based on the VLAN ID, port ID, or/and 802.1p 		<ul style="list-style-type: none"> • 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

Huawei HG8245H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	176 mm x 138.5 mm x 28 mm (without an external antenna)	System power supply	11–14 V DC, 2 A
Weight	About 500 g	Static power consumption	5 W
Operating temperature	0°C to +40°C	Maximum power consumption	15.5 W

Operating humidity	5% RH to 95% RH (non-condensing)	Ports	2POTS+4GE+Wi-Fi+USB
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN/TEL/USB /WLAN/WPS
Interface Parameters			
GPON 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 		
Ethernet Port	<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 		
POTS Port	<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 		

	<ul style="list-style-type: none"> • Emergency calls (with the SIP protocol)
USB Port	<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage
WLAN	<p>IEEE 802.11 b/g/n</p> <ul style="list-style-type: none"> • 2 x 2 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS
Product Function	
<p>Smart O&M</p> <ul style="list-style-type: none"> • IPTV video quality diagnosis (V300R015C10) • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation 	<p>Smart interconnection</p> <ul style="list-style-type: none"> • Smart Wi-Fi coverage (V300R015C10) • SIP/H.248 auto-negotiation • Any port any service • Parental control (V300R015C00) • L2/L3(IPv4) forwarding: 1G uplink, 2G downlink

Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	Smart Service	<ul style="list-style-type: none"> • Smart Wi-Fi sharing: Portal/802.1x authentication (V300R015C10) • SoftGRE-based sharing (V300R015C10) • Association of one account with two POTS ports
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback
Power Saving	<ul style="list-style-type: none"> • Dynamic power saving • Indicator power saving • Scheduled Wi-Fi shutdown (V300R015C00) 	Security	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses
		Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 proxy(V300R015C00)/snooping • MLD v1/v2 snooping • Multicast services through Wi-Fi

Huawei HG8247H Specification

Device Parameters			
Dimensions (H x W x D) (mm)	220 mm x 160 mm x 32 mm (without an external antenna)	System power supply	11–13 V DC, 2 A
Weight	About 1000 g	Static power consumption	7.5 W
Operating temperature	0°C to +40°C	Maximum power consumption	18 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	2POTS+4GE+CATV+Wi-Fi+USB
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/LAN/TEL/USB /WLAN/WPS/CATV
Interface Parameters			
GPON 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 		

Ethernet Port	<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
CATV Port	<ul style="list-style-type: none"> • Bandwidth 54-870 MHz • Output resistance 75 ohms
POTS Port	<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)
USB Port	<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage
WLAN	<p>IEEE 802.11 b/g/n</p> <ul style="list-style-type: none"> • 2 x 2 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS
Product Function	

Smart O&M	<ul style="list-style-type: none"> • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation 	Smart interconnection	<ul style="list-style-type: none"> • Smart Wi-Fi coverage (V300R015C10) • SIP/H.248 auto-negotiation • Any port any service • Parental control (V300R015C00) • L2/L3(IPv4) forwarding: 1G uplink, 2G downlink
Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	Smart Service	<ul style="list-style-type: none"> • Smart Wi-Fi sharing: Portal/802.1x authentication (V300R015C10) • SoftGRE-based sharing (V300R015C10) • Association of one account with two POTS ports
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback
Power Saving	<ul style="list-style-type: none"> • Dynamic power saving • Indicator power saving 	Security	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP/URL addresses

<ul style="list-style-type: none"> Scheduled Wi-Fi shutdown (V300R015C00) 	Multicast	<ul style="list-style-type: none"> IGMP v2/v3 proxy(V300R015C00)/snooping MLD v1/v2 snooping Multicast services through Wi-Fi
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Huawei HG8045Q Specification

Device Parameters			
Dimensions (H x W x D) (mm)	230 x 190 x 30 mm (excluding the support)	System power supply	11–14 V DC, 2 A
Weight	About 500 g	Static power consumption	5 W
Operating temperature	0°C to +40°C	Maximum power consumption	21 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4GE+2.4G/5G Wi-Fi+USB
Power adapter input	100–240 V AC, 50–60 Hz	Indicators	POWER/PON/LOS/USB/PORT /2.4GWi-Fi/5G Wi-Fi/WPS
Interface Parameters			
GPON 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 		

	<ul style="list-style-type: none"> • GPON: consistent with the SN or password authentication defined in G.984.3 • Bi-directional FEC • SR-DBA and NSR-DBA
Ethernet Port	<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
USB Port	<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
WLAN	<ul style="list-style-type: none"> • 802.11 b/g/n (2.4G) • 802.11 a/n/ac (5G) • 3 x 3 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • 2.4G/5G concurrent • Air interface rate: 450 Mbit/s (2.4G); 1300 Mbit/s (5G)
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 • WLAN emulation 	Smart interconnection	<ul style="list-style-type: none"> • Any port any service • L2/L3 forwarding: 1G uplink, 2G downlink
Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	Smart Service	<ul style="list-style-type: none"> • Smart Wi-Fi sharing:
		Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 snooping • MLD v1/v2 snooping • Multicast services through Wi-Fi
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback
Power Saving	<ul style="list-style-type: none"> • Dynamic power saving • Indicator power saving • COCv4 	Security	<ul style="list-style-type: none"> • Anti-DoS attack • Filtering based on MAC/IP/URL addresses

Huawei HG8245Q Specification

Device Parameters			
Dimensions (H x W x D) (mm)	70 mm x 285 mm x 174 mm	System power supply	11–14 V DC, 3 A
Weight	About 1000 g	Static power consumption	6.5 W
Operating temperature	0°C to +40°C	Maximum power consumption	26 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	2POTS+4GE+2.4G/5G Wi-Fi +2USB
Power adapter input	100–240 V AC, 50–60 Hz		
Interface Parameters			
GPON 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 		
Ethernet Port	<ul style="list-style-type: none"> • Ethernet port-based VLAN tags and tag removal • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission 		

	<ul style="list-style-type: none"> • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning
POTS Port	<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)
USB Port	<ul style="list-style-type: none"> • USB2.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
WLAN	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n (2.4G) • IEEE 802.11 a/n/ac (5G) • 3 × 3 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • 2.4G/5G concurrent
Product Function	

Smart O&M	<ul style="list-style-type: none"> • IPTV video quality diagnosis (V300R015C10) • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • WLAN emulation 	Smart interconnection	<ul style="list-style-type: none"> • Smart Wi-Fi coverage (V300R015C10) • SIP/H.248 auto-negotiation • Any port any service • Parental control (V300R015C00) • L2/L3(IPv4) forwarding: 1G uplink, 2G downlink
Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	Smart Service	<ul style="list-style-type: none"> • Smart Wi-Fi sharing: Portal/802.1x authentication (V300R015C10) • SoftGRE-based sharing (V300R015C10) • Association of one account with two POTS ports
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR • Broadcast packet rate limitation 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback
Power Saving	<ul style="list-style-type: none"> • Dynamic power saving 	Security	<ul style="list-style-type: none"> • SPI firewall

<ul style="list-style-type: none"> Indicator power saving Scheduled Wi-Fi shutdown (V300R015C00)	<ul style="list-style-type: none"> Filtering based on MAC/IP/URL addresses
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Huawei HN8055Q Specification

Device Parameters			
Dimensions (H x W x D) (mm)	238 mm x 190 mm x 26 mm (Without the base)	System power supply	12 V DC, 3 A
Weight	< 850 g	Indicators	4*GE+1*10GE+2.4G&5G Wi-Fi +2USB
Operating temperature	0°C to +40°C	Maximum power consumption	< 34 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	4*GE+1*10GE+ 2POTS+2USB
Power adapter input	100–240 V AC, 50–60 Hz		
Interface Parameters			
XG-PON Port	<ul style="list-style-type: none"> Class N1/N2a Receiver sensitivity: -28dBm Wavelengths: US 1260 - 1280 nm, DS 1575-1580 nm WBF Flexible mapping between GEM Port and TCONT SN/Password/SN+Password/Bi-directional authentication based on OMCI 		

	<ul style="list-style-type: none"> • Bi-directional FEC • SR-DBA and NSR-DBA • 2.5G bps uplink, 10G bps downlink
Ethernet Port	<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
USB Port	<ul style="list-style-type: none"> • USB 3.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
WLAN	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n(2.4G) • IEEE 802.11 a/n/ac(5G) • 3 × 3 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • 2.4G/5G concurrent • Air interface rate: 450 Mbit/s(2.4G); 1300 Mbit/s(5G)
Product Function	

Smart O&M	<ul style="list-style-type: none"> • IPTV video quality diagnosis • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPoE/DHCP simulation testing • Wi-Fi emulation 	Smart interconnection	<ul style="list-style-type: none"> • Smart Wi-Fi coverage • Any port any service • Parental control
Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	Smart Service	<ul style="list-style-type: none"> • Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing
		Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 proxy/snooping • MLD v1/v2 snooping • Multicast services through Wi-Fi
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback
Power Saving	<ul style="list-style-type: none"> • COC V5 • Dynamic power Saving • Scheduled Wi-Fi shutdown 	Security	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP addresses

Huawei HN8245Q Specification

Device Parameters			
Dimensions (H x W x D) (mm)	238mm x 190mm x 26mm (Without the base)	System power supply	11–14 V DC, 3 A
Weight	< 1000 g	Static power consumption	6 W
Operating temperature	0°C to +40°C	Maximum power consumption	30 W
Operating humidity	5% RH to 95% RH (non-condensing)	Ports	2POTS+4GE+2.4G&5G Wi-Fi+2USB
Power adapter input	100–240 V AC, 50–60 Hz		
Interface Parameters			
XG-PON Port	<ul style="list-style-type: none"> • Class N1/N2a • Receiver sensitivity: -28dBm • Wavelengths: US 1260-1280nm, DS 1575- 1580nm • WBF • Flexible mapping between GEM Port and TCONT • SN/Password/SN+Password/Bi-directional authentication based on OMCI • upstream and downstream FEC • SR-DBA and NSR-DBA • 2.5Gbps uplink, 10Gbps downlink 		
Ethernet Port	<ul style="list-style-type: none"> • Ethernet port-based VLAN tags and tag removal 		

	<ul style="list-style-type: none"> • 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission • QinQ VLAN • Limit on the number of learned MAC addresses • MAC address learning
POTS Port	<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)
USB Port	<ul style="list-style-type: none"> • USB3.0 • FTP-based network storage • File/Print sharing based on SAMBA • DLNA DMS/UPnP AV (media server)
WLAN	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n(2.4G) • IEEE 802.11 a/n/ac(5G) • 3 × 3 MIMO • Antenna gain: 2 dBi • WMM • Multiple SSIDs • WPS • 2.4G/5G concurrent
Product Function	

Smart O&M	<ul style="list-style-type: none"> • IPTV video quality diagnosis • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • Call emulation, and circuit test and loop-line test • PPPoE/DHCP simulation testing • Wi-Fi emulation • One-click diagnosis(Web) 	Smart interconnection	<ul style="list-style-type: none"> • Smart Wi-Fi coverage • SIP/H.248 auto-negotiation • Any port any service • Parental control
Layer 3 Features	<ul style="list-style-type: none"> • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPv6/IPv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port 	Smart Service	<ul style="list-style-type: none"> • Smart Wi-Fi sharing: Portal/802.1x authentication SoftGRE-based sharing • Association of one account with two POTS ports
		Multicast	<ul style="list-style-type: none"> • IGMP v2/v3 proxy snooping • MLD v1/v2 snooping • Multicast services through Wi-Fi
QoS	<ul style="list-style-type: none"> • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR 	Common O&M	<ul style="list-style-type: none"> • OMCI/Web UI/TR069 • Dual-system software backup and rollback
Power Saving	<ul style="list-style-type: none"> • COC V5 • Dynamic power saving 	Security	<ul style="list-style-type: none"> • SPI firewall • Filtering based on MAC/IP addresses

	• Scheduled Wi-Fi shutdown		
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Basic Ordering Information

SKU	Description
EG8010H	Huawei EchoLife EG8010H GPON Terminal, 1 GE port
EG8020P	Huawei EchoLife EG8020P ONT, 2GE PoE ports, 1 GPON port
EG8040F	Huawei EchoLife EG8040F ONT, intelligent bridging-type ONT, 4FE
EG8040H	Huawei EchoLife EG8040H ONT, intelligent bridging-type ONT, 4GE
EG8040H5	Huawei EchoLife EG8040H5 ONT, intelligent bridging-type ONT, 4GE
EG8040P	Huawei EchoLife EG8040P ONT, intelligent bridging-type ONT, 4GE PoE
EG8080P	Huawei EchoLife EG8080P ONT, 8*GE (PoE and PoE+), 1*GPON/XG-PON/XGS-PON
EG8084P	Huawei EchoLife EG8084P ONT, 8*GE, 1*GPON/XG-PON/XGS-PON
EG8084P-300G1	Huawei EchoLife EG8084P Function Module
EG8084P-300H1	Huawei EchoLife EG8084P Function Module
EG8120	Huawei EchoLife EG8120 ONT, 1FE + 1GE + 1POTS
EG8120L	Huawei EchoLife EG8120 ONT, 1POTS+1GE+1FE
EG8240H	Huawei EchoLife EG8240H ONT, 4GE + 2POTS
EG8240H5	Huawei EchoLife EG8240H5 ONT, 4GE + 2POTS
EG8240P	Huawei EchoLife EG8240P ONT, 4*GE(PoE) + 2*POTS
EG8242H	Huawei EchoLife EG8242H ONT, 4GE + 2POTS + CATV

EG8280P	Huawei EchoLife EG8280P ONT, 8*GE (PoE and PoE+) + 2*POTS, 1*GPON/XG-PON/XGS-PON
HG8012H	Huawei EchoLife HG8012H ONT, 1GE + 1CATV
HG8040H	Huawei EchoLife HG8040H ONT, 4GE
HG8040P	Huawei EchoLife HG8040P, intelligent P2P ONT, 4GE
HG8045A	Huawei EchoLife HG8045A, intelligent routing-type ONT, 4FE+Wi-Fi
HG8045H	Huawei EchoLife HG8045H, intelligent routing-type ONT, 4GE + Wi-Fi + USB
HG8050P	Huawei EchoLife HG8050P, intelligent P2P ONT, NNI: GE optical port or GE electrical port, UNI: 4GE+1GE
HG8110F	Huawei EchoLife HG8110F, intelligent bridging-type ONT, 1FE+1POTS (V3R015C00 and before); 1GE+1POTS(after V3R015C00)
HG8110H	Huawei EchoLife HG8110H, intelligent bridging-type ONT, 1GE + 1POTS
HG8120F	Huawei EchoLife HG8110F, intelligent bridging-type ONT, 2FE + 1POTS
HG8120H	Huawei EchoLife HG8120H, intelligent routing-type ONT, 1POTS+1GE+1FE
HG8240F	Huawei EchoLife HG8240F, intelligent bridging-type ONT, 4FE + 1POTS
HG8240H	Huawei EchoLife HG8240H, intelligent bridging-type ONT, 4GE + 2POTS
HG8240S	Huawei EchoLife HG8240S, intelligent bridging-type ONT, 4GE + 2POTS
HG8240u	Huawei EchoLife HG8240u, intelligent bridging-type ONT, 2POTS+4GEv
HG8242H	Huawei EchoLife HG8242H, intelligent bridging-type ONT, 4GE + 2POTS + CATV
HG8245A	Huawei EchoLife HG8245A, intelligent bridging-type ONT, 2POTS + 4FE + Wi-Fi + 1USB
HG8245D	Huawei EchoLife HG8245D, intelligent bridging-type ONT, 2POTS+4GE+2.4G/5G Wi-Fi+USB

HG8245H	Huawei EchoLife HG8245H, intelligent bridging-type ONT, 2POTS + 4GE +2.4G Wi-Fi + 1USB
HG8245Q	Huawei EchoLife HG8245Q, intelligent bridging-type ONT, 2POTS + 4GE + 2.4G/5G Wi-Fi+ 2USB
HG8245U	Huawei EchoLife HG8245U, intelligent bridging-type ONT, 2POTS+4GE+2.4G/5G Wi-Fi+1USB
HG8247H	Huawei EchoLife HG8247H, intelligent bridging-type ONT, 2POTS + 4GE + CATV + Wi-Fi + USB
HG8247U	Huawei EchoLife HG8247U, intelligent bridging-type ONT, 4GE+2POTS+2.4G/5G Wi-Fi+1USB+1CATV
HN8245Q	Huawei EchoLife HN8245Q, intelligent XG-PON routing-type ONT, XG-PON (SFP+ Optical Module), 2POTS+4GE+2.4G&5G Wi-Fi+2USB
HN8255Ws	Huawei EchoLife HN8255Ws, intelligent XGS-PON routing-type ONT, XGS-PON (SFP+ Optical Module), 2 x POTS + 4 x GE + 1 x 10GE +2.4G&5G Wi-Fi + 2 x USB
LS2035V	Huawei Smart Home Gateway LS2035V, NNI: GE (Electrical port), UNI: 3GE+2USB+2.4G, WiFi&5G WiFi+Zig-bee

Where to Buy

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- Fax: +852-3050-1066 (Hong Kong)
- Email: sales@router-switch.com (Sales Inquiries)

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