Overview

The Huawei EchoLife HN8255Ws is an XGS-PON routing-type ONT in the Huawei all-optical access solution. It uses the XGS-PON technology to implement ultra-broadband access for users.

It provides 4 GE+1 10GE+2 POTS+2 USB+2 WiFi(4 GE ports, 1 10GE port,2 POTS ports, 2 USB port, 1 2.4G WiFi port and 1 5G WiFi port). The high forwarding performance ensures the user experience of voice, data and HD video services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

Quick Specification

Table 1 shows the Quick Specification.

Model	EchoLife HN8255Ws
Dimensions (W x D x H)	82.5 mm x 305 mm x 198 mm (without external antenna and pads)
Weight	About 920g
Operating Temperature	0ºC to +40ºC
Operating Humidity	5% to 95% RH (non-condensing)
Power Adapter Input	100-240V AC, 50/60 Hz
System Power Supply	11-14 V DC, 4 A
Static Power Consumption	9.8 W
Maximum Power Consumption	22 W
Network-Side Port	XGS-PON (SFP+ Optical Module)
User-Side Port	4 GE+1 10GE+2 POTS+1 USB2.0+1 USB3.0+2.4G&5G Wi-Fi 5
Indicators	Power/PON/LOS/TEL1-TEL2/10G LAN/LAN1-LAN4/WLAN/WPS/USB

Figure 1 shows the appearance of EchoLife HN8255Ws.

Product Details

Interface Parameters

XGS-PON Port	● Class N1/N2 ● Receiver sensitivity: -28 dBm ● Wavelengths: US 1260-1280 nm, DS 1575-1580 nm ● Wavelength blocking filter (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 ● 10 Gbit/s upstream, 10 Gbit/s downstream
Ethernet Port	● 4 x GE + 1 x 10GE ● Ethernet port-based VLAN tags and tag removal ● 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission ● QinQ VLAN ● Limitation on the number of learned MAC addresses ● MAC address learning
POTS Port	● 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	● USB2.0 ● USB3.0 ● FTP-based network storage ● File/Print sharing based on SAMBA ● DLNA DMS/UPnP AV (media server)
WLAN	● IEEE 802.11 b/g/n (2.4G) ● IEEE 802.11 a/n/ac (5G) ● 3×3 MIMO (2.4G) ● 4×4 MU-MIMO (5G) ● Antenna gain: 2 dBi ● 2.4-2.4835 GHz EIRP 100 mW ● 5.15-5.25 GHz/5.25-5.35 GHz EIRP 200 mW; 5.47-5.725 GHz EIRP 1000 mW Note: These are EIRP values in the CE standard. ● WMM (Wi-Fi Multi Media) ● Multiple SSIDs ● WPS ● 2.4G/5G concurrent ● Air interface rate: 2. 4G: 450 Mbit/s; 5G: 1733 Mbit/s

Product Function

Smart Interconnection	● Smart Wi-Fi coverage ● SIP/H.248 auto-negotiation ● Any port any service ● Parental control
Smart Service	● Smart Wi-Fi sharing: Portal/802.1x authentication; SoftGRE-based sharing Association of one account with two POTS ports
Smart O&M	● 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)
Layer 3 Features	● PPPoE/DHCP simulation testing ● WLAN emulation ● 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
Multicast	● IGMP v2/v3 proxy (V300R015C00)/snooping ● MLD v1/v2 snooping ● Multicast services through Wi-Fi
QoS	● Ethernet port rate limitation ● 802.1p priority ● SP/WRR/SP+WRR
Security	● SPI firewall ● Filtering based on MAC/IP/URL addresses
Common O&M	● OMCI/Web UI/TR069 ● Dual-system software backup and rollback
Power Saving	● COC V5 ● Scheduled Wi-Fi shutdown
Home Network	● Home network control center ● Configuration synchronization to distributed PnP APs ● Wi-Fi signal optimization within the home network ● Wi-Fi roaming within the home network ● Band steering ● Beamforming ● Wi-Fi video QoS improvement

Get More Information

Do you have any question about the EchoLife HN8255Ws?

Contact us now via info@hi-network.com.

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NNI	XGS-PON (SFP+ Optical Module)
UNI	4 GE+1 10GE+2 POTS+1 USB2.0+1 USB3.0+2.4G&5G Wi-Fi 5
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	● IEEE 802.11 a/n/ac (5G)
	● 3×3 MIMO (2.4G)
	● 4×4 MU-MIMO (5G)
	● Antenna gain: 2 dBi
	● 2.4-2.4835 GHz EIRP 100 mW
	● 5.15-5.25 GHz/5.25-5.35 GHz EIRP 200 mW; 5.47-5.725 GHz EIRP 1000 mW
	Note: These are EIRP values in the CE standard.
	● WMM (Wi-Fi Multi Media)
	● Multiple SSIDs
	● WPS
	● 2.4G/5G concurrent
	● Air interface rate: 2. 4G: 450 Mbit/s; 5G: 1733 Mbit/s

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