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#### **Overview**

The EchoLife EG8143A5 is a routing-type ONT in the Huawei all-optical access solution. It uses the GPON technology to implement ultra-broadband access for users. 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.

- Smart service
- Smart interconnection
- Smart O&M

#### **Quick Specification**

#### Table 1 shows the Quick Specification.

Model	EchoLife EG8143A5
Dimensions (W x D x H)	34 mm $\times$ 175 mm $\times$ 115 mm (without external antenna and pads)
Weight	About 235 g
Operating Temperature	0°C to 40°C
Operating Humidity	5% RH to 95% RH (non-condensing)
Power Adapter Input	100–240 V AC, 50–60 Hz
System Power Supply	11–14 V DC, 1 A
Static Power Consumption	5.2 W
Maximum Power Consumption	8.2 W
NNI	GPON
UNI	1GE + 3FE + 1POTS + 2.4G Wi-Fi + 1CATV
Optical Connector	SC/APC
Indicators	Power/PON/LOS/LAN/TEL/WLAN/WPS/CATV



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Figure 1 shows the appearance of EchoLife EG8143A5.



### **Product Details**

#### **Port Parameters**

	• Class B+
GPON Port	• Receiver sensitivity: -27dBm ~ -29dBm
	• 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
	• Type B (single-homing & dual-homing)
	Ethernet port-based VLAN tags and tag removal
	• 1:1 VLAN, N:1 VLAN, or VLAN transmission
Ethernet Port	• QinQ VLAN
	• Limit 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)



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	• IEEE 802.11 b/g/n (2.4G)
	• 2 x 2 MIMO
	• Antenna gain: 2 dBi
WLAN	• WMM
	Multiple SSIDs
	• WPS
	• Air interface rate: 300 Mbit/s

#### **Function List**

Smart Interconnection  Parental control  1.2.1.3.(TP-4) forwarding: IG uplink, 2G downlink  SIPPL-28 auto-negotiation  Smart Service  Smart Wi-Fi sharing: 802.1x authentication/Portal; SoftGRE-based sharing  PMDI  Variable length OMCI messages  Active Passive rogue ONT detection and isolation  PPPGE/DHCP simulation testing  Call emulation, and circuit test and loop-line test  VII AN emulation  PPPGE/BHCP simulation  PPPGE/Static IP/DHCP  NATA/APT  Port forwarding  ALG, UPAP  DDNS/DNS server/DNS client  PPGGIPP-0 dual stack, and DS-Lite  Static-Default routes  Multiple services on one WAN port  Multiple services on one WAN port  MAC/PPLIR. address filtering  Security  POWER Statick  IGMP y-2V3 snooping  Common O&M  Power Saving  OMCI Web UT/TR/09  Power Saving  Power Saving  Power Saving  Power Saving  Processor are limitation  Ethernet port rate limitation  PROCESSOR Server/WIR  Processor are limitation  PROCESSOR Server/PWR  Processor are limitation		• Smart Wi-Fi coverage
Smart Interconnection  Parental control  1.21.3.(IPP-4) forwarding: IG uplink, 2G downlink  SIPH 2.48 auto-negotiation  Smart Service  Smart Wi-Fi sharing: 802.1x authentication/Portal; SoftGRE-based sharing  • AMDI  • Variable-length OMCI messages  • Active/Passive rogue ONT detection and isolation  • PPP-0E/DHCP simulation testing  • Call emulation, and circuit test and loop-line test  • WLAN emulation  • PPP-0E/Static IP/DHCP  • NATNAPT  • Port forwarding  • ALG, UPop  • DONN/DNS server/DNS client  • IP-6/IPP-4 dual stack, and DS-Lite  • Static Default routes  • Multiple services on one WAN port  • MACTEURL address filtering  Security  • Security  • MACTEURL address filtering  • Anti-DoS attack  • (SMP y2-v3 ancoping  • (S		
Smart Service   Smart Service   Smart Wi-Fi sharing: 802.1x authentication/Portal; SoftGRE-based sharing	Court Literature d'an	
SIPH.248 auto-negotiation	Smart Interconnection	
Smart Service  • Smart Wi-Fi sharing: 802.1x authentication/Portal; SoftGRE-based sharing  • cMDI • Variable-length OMCI messages • Active/Passive rogue ONT detection and isolation • PPPOED-DHCP simulation testing • Call emulation, and circuit test and loop-line test • WLAN emulation • PPPOED-Static IP-DHCP • NAT/NAPT • Port forwarding • ALG, UPaP • DDNS/DNS server/DNS client • IP-Pof IP-4 dead stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port  • MAC/IP-URL address filtering • SPI firewall • Anti-DoS attack  Multicast  Multicast  • IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping  Common O&M  Power Saving  QoS  QoS  • SP/WRR/SP+WRR		
Smart O&M  PPOED DHCP simulation testing  Call emulation, and circuit test and loop-line test  WLAN emulation  PPOED DHCP  NATANAPT  Port forwarding  ALG, UPnP  DDNS/DNS server/DNS client  Prowfilted tasks, and DS-Lite  Static Default routes  Multiple services on one WAN port  MACTP-URL address filtering  April firewall  Anti-DoS attack  IGMP v2/v3 proxy  Multicast  Power Saving  OMC UWeb ULTR069  Dual-system software backup and rollback  Indicator power saving  Secleded Wi-Fi shuddown  Ethernet port rate limitation  802.1p priority  SPWRR/SP+WRR		• SIP/H.248 auto-negotiation
Smart O&M  PPPOE/DHCP simulation testing  Call emulation, and circuit test and loop-line test  WLAN emulation  PPPOE/DHCP simulation testing  Call emulation, and circuit test and loop-line test  WLAN emulation  PPPOE/Static IP/DHCP  NAT/NAPT  Port forwarding  ALG, UPnP  DDNS/DNS server/DNS client  ProfitPd dual stack, and DS-Lite  Static/Default routes  Multiple services on one WAN port  MAC/IP/URL address filtering  PSE firewall  Anti-DuS attack  IGMP v2/v3 proxy  Multicast  Power Saving  Oos  Power Saving  Oos  Power Saving  Oos  PSE/WRR/SP+WRR	Smart Service	Smart Wi-Fi sharing: 802.1x authentication/Portal; SoftGRE-based sharing
Smart O&M  O Active/Passive rogue ONT detection and isolation  PPPOE/DHCP simulation testing  Call emulation, and circuit test and loop-line test  WLAN emulation  PPPOE/Static IP/DHCP  NAT/NAPT  Port forwarding  ALG, UPnP  DDNS/DNS server/DNS client  PPoof/Pvd dual stack, and DS-Lite  Static/Default routes  Multiple services on one WAN port  Security  Security  AMCATP/URL address filtering  Security  Security  AMCATP/URL address filtering  Self firewall  Auti-DoS attack  IGMP v2/v3 snooping  IGMP v2/v3 snooping  Common O&M  Dowl-System software backup and rollback  Indicator power saving  Scheduled Wi-Fi shutdown  Ethernet port rate limitation  802.1p priority  SP/WRR-SP+WRR		• eMDI
Smart O&M  • PPPOE/DHCP simulation testing • Call emulation, and circuit test and loop-line test • 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  • MACT/PURL address filtering • SPI firewall • Anti-DoS attack • IGMP v2/v3 snooping  Multicast • IGMP v2/v3 proxy • MLD v1/v2 snooping • OMC/Web Ul/TR069 • Dual-system software backup and rollback • Indicator power saving • Scheduled Wi-Fi shutdown • Ethernet port rate limitation • 802.1 p priority • SPWRR/SP+WRR		Variable-length OMCI messages
PPPOEDHCP simulation testing  Call emulation, and circuit test and loop-line test  WLAN emulation  PPPOEDStatic 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  MAC/IP/URL address filtering  PPF firewall  Anti-DoS attack  IGMP v2/v3 snooping  Multicast  Power Saving  Power Saving  OoS  Power Saving  Power Saving  Ethernet port rate limitation  802.1 p priority  SP/WRR/SP+WRR	Smart O&M	Active/Passive rogue ONT detection and isolation
• WLAN emulation  • PPPoE/Static IP/DHCP • NAT/NAPT • Port forwarding • ALG, UPnP • DDNS/DNS server/DNS client • IPvof/Pv4 dual stack, and DS-Lite • Static/Default routes • Multiple services on one WAN port • MAC/IP/URL address filtering • SPP firewall • Anti-DoS attack • IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping • OMCU/Web UL/TR069 • Dual-system software backup and rollback • Indicator power saving • Scheduled Wi-Fi shutdown • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR	Smart Octo	• PPPoE/DHCP simulation testing
PPPoE/Static IP/DHCP  NAT/NAPT  Port forwarding  ALG, UPaP  DDNS/DNS server/DNS client  IPv6/IPv4 dual stack, and DS-Lite  Static/Default routes  Multiple services on one WAN port  MAC/IP/URL address filtering  Security  Security  Multicast  IGMP v2/v3 snooping  IGMP v2/v3 snooping  OMCI/Web UI/TR069  Dual-system software backup and rollback  Indicator power saving  Scheduled Wi-Fi shutdown  Ethernet port rate limitation  802.1p priority  SP/WRR/SP+WRR		Call emulation, and circuit test and loop-line test
Layer 3 Features  - 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  - MAC/IP/URL address filtering - SPI firewall - Anti-DoS attack - IGMP v2/v3 snooping - IGMP v2/v3 snooping - MILD v1/v2 snooping - MLD v1/v2 snooping - OMCUWeb UJ/TR069 - Dual-system software backup and rollback - Power Saving  - Scheduled Wi-Fi shutdown - Ethernet port rate limitation - 802.1p priority - SP/WRR/SP+WRR		WLAN emulation
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  • MAC/IP/URL address filtering  • SPI firewall  • Anti-DoS attack  • IGMP v2/v3 snooping  Multicast  • OMCUWeb UI/TR069  • Dual-system software backup and rollback  • Indicator power saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1 p priority  • SP/WRR/SP+WRR		PPPoE/Static IP/DHCP
ALG, UPnP  DDNS/DNS server/DNS client  IPv6/IPv4 dual stack, and DS-Lite  Static/Default routes  Multiple services on one WAN port  MAC/IP/URL address filtering  Security  Security  Multicast  IGMP v2/v3 snooping  IGMP v2/v3 snooping  IGMP v2/v3 proxy  IGMP v2/v3 proxy  MLD v1/v2 snooping  OMCL/Web U1/TR069  Dual-system software backup and rollback  Indicator power saving  Scheduled Wi-Fi shutdown  Ethernet port rate limitation  802.1p priority  SP/WRR/SP+WRR		• NAT/NAPT
DDNS/DNS server/DNS client  • IPv6/IPv4 dual stack, and DS-Lite  • Static/Default routes  • Multiple services on one WAN port  • MAC/IP/URL address filtering  • SPI firewall  • Anti-DoS attack  • IGMP v2/v3 snooping  Multicast  • IGMP v2/v3 proxy  • MLD v1/v2 snooping  • OMCI/Web UI/TR069  • Dual-system software backup and rollback  • Indicator power saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1p priority  • SP/WRR/SP+WRR		Port forwarding
DDNS/DNS server/DNS client  • IPv6/IPv4 dual stack, and DS-Lite  • Static/Default routes  • Multiple services on one WAN port  • MAC/IP/URL address filtering  • SPI firewall  • Anti-DoS attack  • IGMP v2/v3 snooping  Multicast  • IGMP v2/v3 proxy  • MLD v1/v2 snooping  Common O&M  • OMCL/Web UI/TR069  • Dual-system software backup and rollback  • Indicator power saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1p priority  • SP/WRR/SP+WRR		• ALG, UPnP
• Static/Default routes • Multiple services on one WAN port  • MAC/IP/URL address filtering • SPI firewall • Anti-DoS attack  • IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping  • OMCI/Web UI/TR069 • Dual-system software backup and rollback  • Indicator power saving • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR	Layer 3 Features	DDNS/DNS server/DNS client
Multiple services on one WAN port      MAC/IP/URL address filtering     SPI firewall     Anti-DoS attack      IGMP v2/v3 snooping     IGMP v2/v3 proxy     MLD v1/v2 snooping      OMCL/Web UI/TR069     Dual-system software backup and rollback  Power Saving  OS Scheduled Wi-Fi shutdown  Ethernet port rate limitation     802.1p priority     SP/WRR/SP+WRR		• IPv6/IPv4 dual stack, and DS-Lite
		Static/Default routes
Security  Securi		Multiple services on one WAN port
• Anti-DoS attack • IGMP v2/v3 snooping • IGMP v2/v3 proxy • MLD v1/v2 snooping  • OMCI/Web UI/TR069 • Dual-system software backup and rollback  • Indicator power saving • Scheduled Wi-Fi shutdown • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR		MAC/IP/URL address filtering
Multicast  • IGMP v2/v3 snooping  • IGMP v2/v3 proxy  • MLD v1/v2 snooping  • OMCI/Web UI/TR069  • Dual-system software backup and rollback  • Indicator power saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1p priority  • SP/WRR/SP+WRR	Security	• SPI firewall
Multicast  • IGMP v2/v3 proxy  • MILD v1/v2 snooping  • OMCI/Web UI/TR069  • Dual-system software backup and rollback  • Indicator power saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1p priority  • SP/WRR/SP+WRR		Anti-DoS attack
OMCI/Web UI/TR069     OMCI/Web UI/TR069     Dual-system software backup and rollback  Power Saving     Scheduled Wi-Fi shutdown  OSSP/WRR/SP+WRR		• IGMP v2/v3 snooping
OMCI/Web UI/TR069  • OMCI/Web UI/TR069  • Dual-system software backup and rollback  • Indicator power saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1p priority  • SP/WRR/SP+WRR	Multicast	• IGMP v2/v3 proxy
Common O&M  • Dual-system software backup and rollback  • Indicator power saving • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR		• MLD v1/v2 snooping
Dual-system software backup and rollback     Indicator power saving     Scheduled Wi-Fi shutdown      Ethernet port rate limitation     802.1p priority     SP/WRR/SP+WRR		OMCI/Web UI/TR069
Power Saving  • Scheduled Wi-Fi shutdown  • Ethernet port rate limitation  • 802.1p priority  • SP/WRR/SP+WRR	Common O&M	Dual-system software backup and rollback
Scheduled Wi-Fi shutdown      Ethernet port rate limitation      802.1p priority      SP/WRR/SP+WRR		• Indicator power saving
QoS  • 802.1p priority  • SP/WRR/SP+WRR	Power Saving	Scheduled Wi-Fi shutdown
QoS  • SP/WRR/SP+WRR	QoS	Ethernet port rate limitation
• SP/WRR/SP+WRR		• 802.1p priority
Broadcast packet rate limitation		• SP/WRR/SP+WRR
		Broadcast packet rate limitation



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#### **Get More Information**

Do you have any question about the EchoLife EG8143A5?

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# **Specification**

	EchoLife EG8143A5 Specification
Dimensions (W x D x H)	34 mm $\times$ 175 mm $\times$ 115 mm (without external antenna and pads)
Weight	About 235 g
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Maximum Power Consumption	8.2 W
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UNI	1GE + 3FE + 1POTS + 2.4G Wi-Fi + 1CATV
Optical Connector	SC/APC
Indicators	Power/PON/LOS/LAN/TEL/WLAN/WPS/CATV
GPON Port  Ethernet Port	<ul> <li>Class B+</li> <li>Receiver sensitivity: -27dBm ~ -29dBm</li> <li>Wavelengths: US 1310nm, DS 1490nm</li> <li>Wavelength blocking filter (WBF)</li> <li>Flexible mapping between GEM Port and TCONT</li> <li>GPON: consistent with the SN or password authentication defined in G.984.3</li> <li>Bi-directional FEC</li> <li>SR-DBA and NSR-DBA</li> <li>Type B (single-homing &amp; dual-homing)</li> <li>Ethernet port-based VLAN tags and tag removal</li> <li>1:1 VLAN, N:1 VLAN, or VLAN transmission</li> <li>QinQ VLAN</li> <li>Limit on the number of learned MAC addresses</li> </ul>
POTS Port	<ul> <li>MAC address learning</li> <li>Maximum REN: 4</li> <li>G.711A/μ, G.729a/b, and G.722 encoding/decoding</li> <li>T.30/T.38/G.711 fax mode</li> </ul>



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	• DTMF
	• Emergency calls (with the SIP protocol)
	• IEEE 802.11 b/g/n (2.4G)
	• 2 x 2 MIMO
	• Antenna gain: 2 dBi
WLAN	• WMM
	Multiple SSIDs
	• WPS
	• Air interface rate: 300 Mbit/s

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