

# SY-GPON-4010-WADONT



4GE+ 1POT+ WIFI (AC)

#### Product Description :

GE + 1 POTS AC WiFi XPON HGU terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators. These boxes are based on the mature technology which have high ratio of performance to price, and the technology of IEEE802.11b/g/n/ac WiFi, Layer 2/3,. They are highly reliable and easy to maintain, with guaranteed QoS for different service. And they are fully compliant with technical regulations such as IEEE802.3ah ITU-T G.984.x and technical requirement of GPON Equipments.



#### LED Indicators:

PON interface  1 G/EPON port(EPON PX20+ and GPON Class B+) Wavelength:Tx1310nm,Rx 1490nm SC/UPC connector Receiving saturation:≥-8dBm Receiving sensitivity: ≤-28dBm Transmitting optical power: 0→+4dBm Transmission distance: 20KM  4×10/100/1000Mbps auto adaptive Ethernet interfaces. Full/Half, Rj45 connector  Wireless  Compliant with IEEE802.11b/g/n/ac 2.4GHz Operating frequency: 2.400- 2.483GHz 5.0GHz Operating frequency: 5.150- 5.825GHz Support MIMO, 2T2R,5dBi external antenna, rate up to 1.167Gbps Support: multiple SSID TX power: 11n~22dBm/11ac~24dBm  POTS interface  1×FXS, RJ11 connector Support: 7.30/T.38/G.711 Fax mode, DTMF Relay Line testing according to GR-909 USB interface USB3.0  USB interface USB3.0 Operating condition Temperature: 0°C ~ +50°C Storing condition Humidity: 5%-90% (non-condensing) Power supply DC 12V,1/1.5A Power consumption 205mm×140mm×37mm(L×W×H) Net weight		
1490nm SC/UPC connector Receiving saturation:≥-8dBm Receiving saturation:≥-8dBm Receiving saturation:≥-8dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM  LAN interface  4×10/100/1000Mbps auto adaptive Ethernet interfaces. Full/Half, Rj45 connector  Wireless  Compliant with IEEE802.11b/g/n/ac 2.4GHz Operating frequency: 2.400- 2.483GHz 5.0GHz Operating frequency: 5.150- 5.825GHz Support MIMO, 2T2R,5dBi external antenna, rate up to 1.167Gbps Support: multiple SSID TX power: 11n22dBm/11ac24dBm  POTS interface  1×FXS, RJ11 connector Support: G.711I/G.723/G.726/G.729 codec Support: T.30/T.33/G.711 Fax mode, DTMF Relay Line testing according to GR-909  USB interface  USB3.0  LED  12, For Status of PWR, PON, LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB. Temperature: 0°C ~ +50°C Storing condition Humidity: 5%-90% (non-condensing) Power supply DC 12V,1/1.5A Power consumption ≤10W Dimension	PON interface	1 G/EPON port(EPON PX20+ and GPON
SC/UPC connector		Class B+) Wavelength:Tx1310nm,Rx
Receiving saturation:≥-8dBm Receiving sensitivity: ≤-28dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM  4×10/100/1000Mbps auto adaptive Ethernet interfaces. Full/Half, Rj45 connector  Wireless  Compliant with IEEE802.11b/g/n/ac 2.4GHz Operating frequency: 2.400- 2.483GHz 5.0GHz Operating frequency: 5.150- 5.825GHz Support MIMO, 2T2R,5dBi external antenna, rate up to 1.167Gbps Support: multiple SSID TX power: 11n-22dBm/11ac24dBm  POTS interface 1×FXS, RJ11 connector Support: G.711/G.723/G.726/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay Line testing according to GR-909  USB interface USB3.0  LED 12, For Status of PWR, PON, LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB. Operating condition Humidity: 5%-90% (non-condensing) Power supply DC 12V,1/1.5A Power consumption ≤10W Dimension  Receiving sensitivity: ≤-28dBm Transmitting optical power: 0~C ~ +50~C		1490nm
Receiving sensitivity: ≤-28dBm     Transmitting optical power: 0~+4dBm     Transmission distance: 20KM     LAN interface		SC/UPC connector
Transmitting optical power: 0~+4dBm		Receiving saturation:≥-8dBm
Transmission distance: 20KM		Receiving sensitivity: ≤-28dBm
LAN interface         4×10/100/1000Mbps auto adaptive           Ethernet interfaces. Full/Half, Rj45           connector           Wireless         Compliant with IEEE802.11b/g/n/ac           2.4GHz Operating frequency: 2.400-           2.483GHz         5.0GHz Operating frequency: 5.150-           5.825GHz         Support MIMO, 2T2R,5dBi external           antenna, rate up to 1.167Gbps Support:         multiple SSID           TX power: 11n22dBm/11ac24dBm           POTS interface         1×FXS, RJ11 connector           Support: G.711/G.723/G.726/G.729 codec           Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)		Transmitting optical power: 0~+4dBm
Ethernet interfaces. Full/Half, Rj45		Transmission distance: 20KM
Wireless         Compliant with IEEE802.11b/g/n/ac           2.4GHz Operating frequency: 2.400-           2.483GHz           5.0GHz Operating frequency: 5.150-           5.825GHz           Support MIMO, 2T2R,5dBi external           antenna, rate up to 1.167Gbps Support:           multiple SSID           TX power: 11n22dBm/11ac24dBm           POTS interface         1×FXS, RJ11 connector           Support: G.711/G.723/G.726/G.729 codec           Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)	LAN interface	4×10/100/1000Mbps auto adaptive
Compliant with IEE802.11b/g/n/ac		Ethernet interfaces. Full/Half, Rj45
2.4GHz Operating frequency: 2.400- 2.483GHz 5.0GHz Operating frequency: 5.150- 5.825GHz Support MIMO, 2T2R,5dBi external antenna, rate up to 1.167Gbps Support: multiple SSID  TX power: 11n22dBm/11ac24dBm  POTS interface  1×FXS, RJ11 connector Support: G.711/G.723/G.726/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay Line testing according to GR-909  USB interface USB3.0  LED  12, For Status of PWR, PON, LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.  Operating condition Temperature: 0°C ~ +50°C  Storing condition Humidity: 5%-90% (non-condensing) Power supply DC 12V,1/1.5A  Power consumption ≤10W  Dimension 205mm×140mm×37mm(L×W×H)		connector
2.483GHz   5.0GHz Operating frequency: 5.150-  5.825GHz   Support MIMO, 2T2R,5dBi external   antenna, rate up to 1.167Gbps Support: multiple SSID   TX power: 11n22dBm/11ac24dBm	Wireless	Compliant with IEEE802.11b/g/n/ac
5.0GHz Operating frequency: 5.150-		2.4GHz Operating frequency: 2.400-
5.825GHz   Support MIMO, 2T2R,5dBi external   antenna, rate up to 1.167Gbps Support:   multiple SSID   TX power: 11n22dBm/11ac24dBm		2.483GHz
Support MIMO, 2T2R,5dBi external           antenna, rate up to 1.167Gbps Support:           multiple SSID           TX power: 11n22dBm/11ac24dBm           POTS interface         1×FXS, RJ11 connector           Support: G.711/G.723/G.726/G.729 codec           Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)		5.0GHz Operating frequency: 5.150-
antenna, rate up to 1.167Gbps Support: multiple SSID  TX power: 11n22dBm/11ac24dBm  POTS interface  1×FXS, RJ11 connector Support: G.711/G.723/G.726/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay Line testing according to GR-909  USB interface  USB3.0  LED  12, For Status of PWR, PON, LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.  Operating condition  Temperature: 0°C ~ +50°C  Storing condition  Humidity: 5%-90% (non-condensing)  Power supply  DC 12V,1/1.5A  Power consumption  ≤10W  Dimension  205mm×140mm×37mm(L×W×H)		5.825GHz
multiple SSID           TX power: 11n22dBm/11ac24dBm           POTS interface         1×FXS, RJ11 connector           Support: G.711/G.723/G.726/G.729 codec           Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)		Support MIMO, 2T2R,5dBi external
TX power: 11n22dBm/11ac24dBm           POTS interface         1×FXS, RJ11 connector           Support: G.711/G.723/G.726/G.729 codec           Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB 3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)		antenna, rate up to 1.167Gbps Support:
POTS interface         1×FXS, RJ11 connector           Support: G.711/G.723/G.726/G.729 codec           Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)		multiple SSID
Support: G.711/G.723/G.726/G.729 codec         Support: T.30/T.38/G.711 Fax mode, DTMF         Relay Line testing according to GR-909         USB interface         USB3.0         LED       12, For Status of PWR, PON,         LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.         Operating condition       Temperature: 0°C ~ +50°C         Storing condition       Humidity: 5%-90% (non-condensing)         Power supply       DC 12V,1/1.5A         Power consumption       ≤10W         Dimension       205mm×140mm×37mm(L×W×H)		TX power: 11n22dBm/11ac24dBm
Support: T.30/T.38/G.711 Fax mode, DTMF           Relay Line testing according to GR-909           USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)	POTS interface	1×FXS, RJ11 connector
Relay Line testing according to GR-909         USB interface       USB3.0         LED       12, For Status of PWR, PON,         LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.         Operating condition       Temperature: 0°C ~ +50°C         Storing condition       Humidity: 5%-90% (non-condensing)         Power supply       DC 12V,1/1.5A         Power consumption       ≤10W         Dimension       205mm×140mm×37mm(L×W×H)		Support: G.711/G.723/G.726/G.729 codec
USB interface         USB3.0           LED         12, For Status of PWR, PON,           LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.           Operating condition         Temperature: 0°C ~ +50°C           Storing condition         Humidity: 5%-90% (non-condensing)           Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)		Support: T.30/T.38/G.711 Fax mode, DTMF
LED       12, For Status of PWR, PON,         LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.         Operating condition       Temperature: 0°C ~ +50°C         Storing condition       Humidity: 5%-90% (non-condensing)         Power supply       DC 12V,1/1.5A         Power consumption       ≤10W         Dimension       205mm×140mm×37mm(L×W×H)		Relay Line testing according to GR-909
LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.         Operating condition       Temperature: 0°C ~ +50°C         Storing condition       Humidity: 5%-90% (non-condensing)         Power supply       DC 12V,1/1.5A         Power consumption       ≤10W         Dimension       205mm×140mm×37mm(L×W×H)	USB interface	USB3.0
Operating conditionTemperature: $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$ Storing conditionHumidity: $5\%$ -90% (non-condensing)Power supplyDC 12V,1/1.5APower consumption $\leq 10\text{W}$ Dimension $205\text{mm}\times140\text{mm}\times37\text{mm}(\text{L}\times\text{W}\times\text{H})$	LED	12, For Status of PWR, PON,
Storing condition       Humidity: 5%-90% (non-condensing)         Power supply       DC 12V,1/1.5A         Power consumption       ≤10W         Dimension       205mm×140mm×37mm(L×W×H)		LOS, WAN, WiFi, FXS, ETH1~4, WPS, USB.
Power supply         DC 12V,1/1.5A           Power consumption         ≤10W           Dimension         205mm×140mm×37mm(L×W×H)	Operating condition	Temperature: 0°C ~ +50°C
Power consumption ≤10W  Dimension 205mm×140mm×37mm(L×W×H)	Storing condition	Humidity: 5%-90% (non-condensing)
Dimension 205mm×140mm×37mm(L×W×H)	Power supply	DC 12V,1/1.5A
	Power consumption	≤10W
Net weight 0.34Kg	Dimension	205mm×140mm×37mm(L×W×H)
J	Net weight	0.34Kg



## LED Indicators:

Power	PWR	On	The device is powered up.
		Off	The device is owered down
		on	The device is registered
			to the GPON system
Registration	PON	off	Device is not registered
			to the GPON system.
		Blink	Device is registering
Optical signal	LOS	Blink	Device does not receive
			optical signals.
		Off	Device has received
			optical signals.
WAN	WAN	On	WAN is effective
		Off	WAN is ineffective
		On	Device has registered to
			the soft-switch, but
			without ongoing data
			transmission
POTS	FXS	Off	Device is power off or
			registered to the
			soft-switch.
		Blink	Phone hooks offor the
			port is with ongoing data
			transmission.
Ethernet	ETH1~ETH4	On	Port is connected properly
		Off	Port connection
			exception or not
			connected.
		Blink	Port is sending or/and
			receiving data.
		On	WPS client is connected.
			( LED turn o ffafter 5minutes of
			successful connection)
Pair	WPS	Off	Does not use WPS or
			WPS client is connected.(
			LED turn off after 5
			minutes of successful connection)
		Blink	WPS client is connecting
		On	USB device is connected, but



## Interface Description:

			without ongoing data
			transmission.
USB	USB	Off	Device is power o ffor
			USB device is not connected
			USB is with ongoing data
			transmission.

#### Interface Description:

Port Type	Function
PON port	Connect PON port with internet by SC/PC
	type, single mode optical fiber cable.
FXS port	Connect the telephone with FXS port by
	telephone wire.
Ethernet port	Connect PC with Ethernet port by RJ -45 Cat5
	cable.
WiFi pair button	Press down WiFi pair button to begin pairing.
	(wireless pair)
WiFi turn on/o ff(WiFi)	Press down WiFi turn on/off button to
	enable/disable WiFi function.
Reset button (Reset)	Press down reset button to make the device
	restart and recover from factory default
	settings.
USB port	External USB port, connect to USB storage
	device.
Power port (DC12 V)	Connect with power adapter.
Power turn on/o ff	Power turn on/off

#### Soft are Specificacation:

Name	Function
EPON/GPON mode	Connect PON port with internet by SC/PC
	type, single mode optical fiber cable.
Software mode	Connect the telephone with FXS port by
	telephone wire.
Firewall	Connect PC with Ethernet port by RJ -45 Cat5
	cable.



## Interface Description:

Layer2	Connect PC with Ethernet port by RJ -45 Cat5
	cable.
Layer3	IPv4/IPv6, DHCP Client/Server , PPPoE, NAT ,
	DMZ ,DDNS.
Multicast	IGMP v1/v2/v3 , IGMP snooping.
Security	Flow & Storm control, Loop Detection.
POTS	VoIP protocol: SIP,IMS-SIP Voice
	enhancement:
	Local exchange
	Dynamic voice jitter buffering
	Silence detection
	Echo cancel
	Loss compensation
O&M	WEB/TELNET/OAM/OMCI/TR069

