

# SY-GPON-2000-WADONT



## 2GE + WIFI (AC)

### Overview :

Syrotech 2GE+AC Wi-Fi 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 Chipset (Realtek) technology, which have high ratio of performance to price, and the technology of IEEE802.11b/g/n/ac Wi-Fi, 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 Equipment.

## >> Features:

Port	Function
PON Port	Connect PON port with internet by SC/UPC type, single mode optical fiber cable
LAN 2/1 port	Rj45 Port connects to local internet, 2 GE port automatically
Reset button (RST)	Press down reset button and keep 1-5 seconds to make the device restart and recover from the factory default Settings.
PWR port (DC12 V / 1A)	Connect with power adapter
Power turn on/o ff	Power turn on/off

Table 2-1 Description equipment Interface

## >> LED Indicators of Device:

POWER	Light on	ONU power supply normally
	Light o ff	ONU no power supply
PON	Light on	ONU link active
	Flash	ONU manage to link
	Light o ff	ONU receiving power rate lower than optical receiver sensitivity
LOS	Blink	Device does not receive optical signals.
	o ff	Device has received optical signal.
2.4G	ON	Wi-Fi turn on
	OFF	Device is power off or Wi-Fi turn off
	Blink	Wi-Fi turn on and with ongoing data transmission
5G	ON	Wi-Fi turn on
	OFF	Device is power off or Wi-Fi turn off
	Blink	Wi-Fi turn on and with ongoing data transmission
INTERNET	On	Internet is effective.
ETH1 & 2	O ff	Internet is ineffective.
	Light on	Network port linked, but no data transmitting
	Flash	Network port data pass
	Light o ff	ONU no power supply or internet cable unlink

## Wi-Fi Specifications :

Standard	Frequency	IEEE 802.11 ac/b/g/n 2.4~2.4835GHz 5GHz Low frequency 5.15GHz-5.25GHz Middle frequency 5.25GHz-5.35GHz High frequency 5.725GHz-5.825GHz 2.4GHz Frequency:
Standard	Transmission speed	IEEE 802.11b: 11/5.5/2/1M(Auto) IEEE 802.11g: 54/48/36/24/18/12/9/6(Auto) IEEE 802.11n: 270/243/216/162/108/81/54/27Mbps, up to 300Mbps 5GHz Frequency: IEEE 802.11ac: Highest transmission speed up to 867Mbps
Channel number Spread-spectrum Technique Data Modulation		2.4GHz 13 5GHz 4 DSSS (Direct sequence spread spectrum) DBPSK DQPSK CCK and OFDM (BPSK/QPSK/16 QAM/64-QAM)
	Sensitivity @PER (Package error rate) PER	270M-68dBm@10% PER-130M -68dBm@10% 108M-68dBm@10% PER-54M--68dBm@10% 11M-85dBm@8% PER-6M-88dBm@10% PER 1M-90dBm@8% PER PER (Package error rate) 11M-85dBm@8% PER ; 6M- 88dBm@10% PER 1M-90dBm@8% PER
RF power Antenna		20dBm EIRP 5dBi Antennas

## Software Function :

- Support rich QinQ VLAN functions and IGMP Snooping multicast features
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset
- Support 802.11n/ac Wi-Fi(4T4R) function
- Support NAT, Firewall function
- Support IPv4 and IPv6 dual stack
- Full speed non-blocking switching
- 2K MAC address table
- 64 full range VLAN ID
- Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc
- Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc
- Support auto polarity detection of Ethernet ports (AUTO MDIX)
- Integrated IEEE802.1p QoS with four level priority queues
- Support IGMP v1/v2/v3 snooping/proxy and MLD v1/v2 snooping/proxy
- Support bridge, router and bridge/router mixed mode

## > Technical Specifications :

### Physical structure, Environment and Electrical parameter Specification and working environment

Parameter	Nominal
Dimension	178mm×120mm×30m(L×W×H)
Net weight	0.24kg
Typical power consumption	<10W
Noise	None
Cooling style	Naturally cooling
Power supply	12V DC/1A(By external AC/DC adapter)
Installation style	Support PC, wall mount or put inside of information box.
Environment	0~45deg
Atmospheric pressure	70~106Kpa
MTBF	50,000hours
MTTR	30 minutes
Parameter	Nominal

## > GPON Interface Specifications :

### GPON Interface

Connector style	SC/UPC
PON quantity	1
Fiber style	Single mode
Wavelength	TX-1310 +/-20nm RX-1490 +/-10nm
PON interface standard	ITU-T G.984.2/ITU-T G.984.3/ITU-TG.988 Class B+
PON interface receiving rate	1.244Gpbs
PON interface transmitting rate	2.488Gpbs
Output optical power	Min: 0dBm Max: +5dBm
Optical receiver sensitivity	Precede -28dBm
The length of the optical link	Max 20km