



# G1000

## XPON ONU

### 1GE

The SWO-G1000 is an HGU (Home Gateway Unit) designed for various FTTH solutions. The product has a carrier-class FTTH application, providing data service access with stable, mature and cost-effective XPON technology. It is able to switch automatically between EPON and GPON mode when it connects to the EPON OLT or GPON OLT. The product meets the technical requirements of EPON CTC3.0 and GPON ITU-TG.984.X standards by adopting highly reliable technology, an easy management system, flexible configuration and high quality of service (QoS).

### KEY FEATURES

Support:

- EPON/ GPON mode and auto-switch
- ONU auto-discovery/ link detection/ remote upgrade
- Route PPPoE/ DHCP/ Static IP and bridge mode
- IPv4/IPv6 dual mode
- Firewall function and IGMP multi-cast feature
- LAN IP and DHCP server configuration
- Port forwarding and loop-detect
- TR069 remote configuration and maintenance

### TECHNICAL SPECIFICATIONS

<b>PON Interface</b>	1 GPON BOB (bosa on board)
	Receiving sensitivity: $\leq -28\text{dBm}$
	Transmit optical power: $+1 \sim +4\text{dBm}$
	Transmit distance: 20 km
<b>Wavelength</b>	TX: 1310 nm, RX: 1490 nm
<b>Optical Interface</b>	SC/UPC connector
<b>Chip Spec</b>	RTL9601D, CPU 300 MHz, DDR2 32 MB
<b>Flash</b>	SPI NOR flash 16 MB
<b>LAN Interface</b>	1x 10/100/1000 Mbps auto adaptive ethernet interface. RJ45 connector
<b>LED</b>	4 LED, for status of PWR, LOS, PON, LINK/ACT
<b>Push-Button</b>	Power on/off, reset
<b>Operating Condition</b>	Temperature: $0\text{ }^{\circ}\text{C} \sim 50\text{ }^{\circ}\text{C}$   $32\text{ }^{\circ}\text{F} \sim 122\text{ }^{\circ}\text{F}$
	Humidity: 10% ~ 90% (Non-condensing)
<b>Storing Condition</b>	Temperature: $-30\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$   $-22\text{ }^{\circ}\text{F} \sim 140\text{ }^{\circ}\text{F}$
	Humidity: 10% ~ 90% (Non-condensing)
<b>Power Supply</b>	DC 12V/ 0.5A
<b>Power Consumption</b>	< 3W
<b>Dimensions</b>	120 mm x 78 mm x 30 mm   4.72 in x 3.07 in x 1.18 in
<b>Net Weight</b>	0.13 kg   0.28 lbs

### PANEL LIGHTS INTRODUCTION

<b>PWR</b>	On	Power on
	Off	Power off
<b>PON</b>	On	Registered to the PON system
	Blink	Registering to the PON system
	Off	Incorrect registration
<b>LOS</b>	Blink	Optical signal not received
	Off	Optical signal received
<b>LINK/ ACT</b>	On	Port connected correctly (LINK)

	Blink	Port sending or/and receiving data (ACT)
	Off	Port connection incorrect

**APPLICATION**

<b>Typical Solution</b>	FTTO (office), FTTB (building), FTTH (home)
<b>Typical Business</b>	INTERNET, IPTV etc.

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