T4031A

XPON ONU

4 GE + 2 Wi-Fi + 1 USB + 1 POTS + 1 CATV

The SWO-T4031A is a carrier class HGU (Home Gateway Unit), providing data and video service access and supporting various FTTH applications. Based on reliable, robust and cost-effective XPON technology, the SWO-T4031A is able to switch automatically between EPON and GPON modes when it connects to the EPON OLT or GPON OLT. This versatile HGU meets the technical requirements of EPON CTC 3.0 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

- Supports EPON/ GPON mode and auto-switch
- Supports route mode for PPPoE/ DHCP/ Static IP and bridge mode
- Supports IPv4 and IPv6 dual mode
- Supports 2.4 GHz & 5.8 GHz WIFI and multiple SSID
- Supports SIP protocol for VoIP service
- Supports CATV for video service and remote control by OLT
- Supports LAN IP and DHCP server configuration
- Supports port mapping and loop-detection
- Supports firewall function and ACL function
- Supports IGMP snooping/ proxy multi-cast feature
- Supports TR069 remote configuration and maintenance
- Specially designed to prevent system breakdown

TECHNICAL SPECIFICATIONS

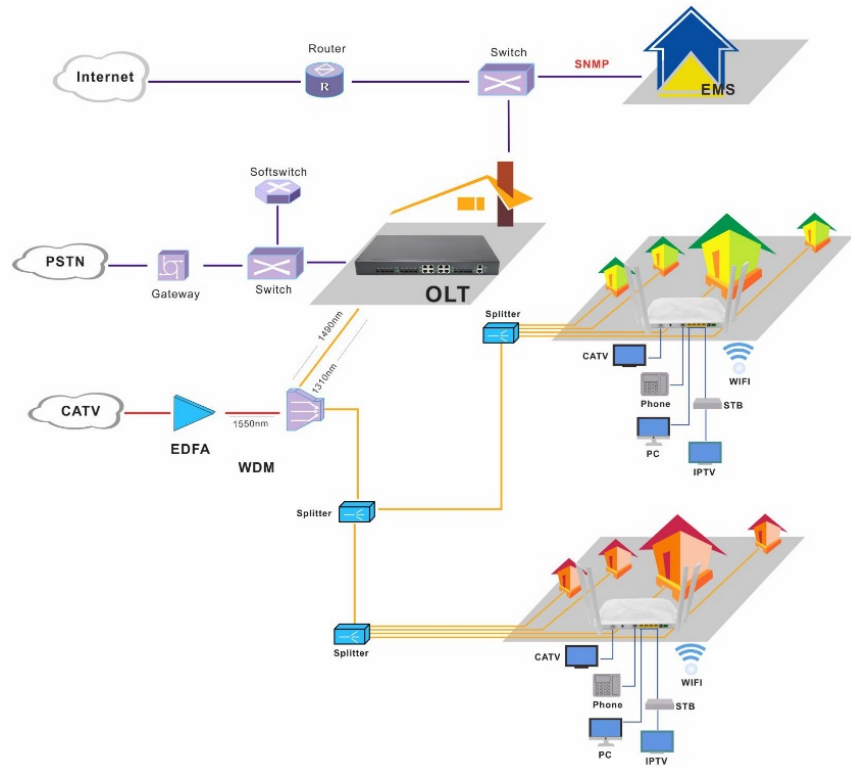|	
PON Interface	1 GPON BoB (Bosa on Board)
	Receiving sensitivity: ≤ -27dBm
	Transmitting optical power: +1 ~ +4dBm
	Transmission distance: 20 km
Wavelength	TX: 1310 nm, RX: 1490 nm
Optical Interface	SC/UPC connector
RAM	2 Gbit DDR3
Flash	1 Gbit SPI NAND flash
LAN Interface	4 x 10/100/1000Mbps auto adaptive ethernet interfaces. Full/ Half, RJ45 connector
Wireless	Compliant with IEEE802.11b/g/n/ac
	2.4G operating frequency: 2.400 GHz – 2.4835 GHz
	5.8G operating frequency: 5.150 GHz – 5.825 GHz
	2.4G 2 x 2 MIMO, rate up to 300 Mbps
	5.8G 2 x 2 MIMO, rate up to 867 Mbps
	4 external antennas 5 dBi
	Supports multiple SSID
POTS Interface	FXS, RJ11 connector
	Supports: G.711/ G.723/ G.726/ G.729 codec
	Supports: T.30/ T.38/ G.711 Fax mode, DTMF Relay
	Line testing according to GR-909
CATV Interface	RF, WDM, optical power: +2 ~ -15dBm
	Optical reflection loss: ≥ 45dB
	Optical receiving wavelength: 1550 ± 10 nm
	RF frequency range: 47 ~ 1000 MHz, RF output impedance: 75Ω
	RF output level: 78dBuV
	AGC range: -13 ~ +1dBm
	MER: ≥32dB@-15dBm

USB	Standard USB2.0
LED	11 LED, for status of PWR, LOS, PON, LAN1 ~ LAN4, 2.4G, 5.8G Worn, Normal (CATV)
Push-Button	2: reset and WPS
Operating Condition	Temperature: 0 ℃ ~ 50 ℃ | 32 °F ~ 122 °F
	Humidity: 10% ~ 90%(Non-condensing)
Storing Condition	Temperature: -30 ℃ ~ 60 ℃ | -22 °F ~ 140 °F
	Humidity: 10% ~ 90% (Non-condensing)
Power Supply	DC 12V/ 1A
Power Consumption	≤ 6W
Dimensions (L×W×H)	260 mm × 158 mm × 192 mm | 10.24 in x 6.22 in x 7.56 in
Net Weight	0.35 kg | 0.77 lbs

PANEL LIGHTS INTRODUCTION

PWR	On	Power on
	Off	Power off
LOS	Blink	Optical signals not received
	Off	Optical signal received
PON	On	Registered to the PON system
	Blink	Registering to the PON system
	Off	Incorrect registration
LAN1 ~ LAN4	On	Port (LANx) connected properly (LINK).
	Blink	Port (LANx) sending or/ and receiving data (ACT)
	Off	Port (LANx) connection incorrect
2.4G	On	2.4G WIFI interface on
	Blink	2.4G WIFI sending or/ and receiving data (ACT)
	Off	2.4G WIFI interface off
5.8G	On	5G WIFI interface on
	Blink	5G WIFI sending or/ and receiving data (ACT)
	Off	5G WIFI interface off
Worn (CATV)	On	Input optical power higher than 3dbm or lower than -15dbm
	Off	Input optical power between -15dbm and 3dbm
Normal (CATV)	On	Input optical power between -15dbm and 3dbm
	Off	Input optical power higher than 3dbm or lower than -15dbm

APPLICATION

Typical Solution	FTTH (fiber to the home)
Typical Business	INTERNET, IPTV, WIFI, VOIP, CATV etc.

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