



T4031U

XPON ONU

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

The SWO-T4031U 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-T4031U 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).

T4031U DATASHEET

KEY FEATURES

- Supports EPON/ GPON mode and auto-switch
- Supports route mode for PPPoE/ DHCP/ Static IP and bridge mode
- Supports IPv4 and IPv6
- Supports 2.4 GHz & 5.8 GHz WIFI and multiple SSID
- Supports SIP protocol for VoIP service
- 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 10/100/1000 Mbps 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 |
| POTS Interface | Support multiple SSID |
| | FXS, RJ11 connector |
| | Support: G.711/ G.723/ G.726/ G.729 Codec |
| | Support: T.30/ T.38/ G.711 Fax Mode, DTMF Relay |
| USB | Standard USB2.0 |
| LED | 9 LED, for status of PWR, LOS, PON, LAN1 ~ LAN4, 2.4G, 5.8G |
| Push-Button | 2: reset and WPS |
| Operating Condition | Temperature: 0 °C ~ 50 °C 32 °F ~ 122 °F |
| | Humidity: 10% ~ 90% (Non-condensing) |

T4031U DATASHEET

| | |
|--------------------------|--|
| Storing Condition | Temperature: -30 °C ~ 60 °C -22 °F ~ 140 °F |
| | Humidity: 10% ~ 90% (Non-condensing) |
| Power Supply | DC 12V/ 1A |
| Power Consumption | ≤ 6W |
| Dimensions | 248 mm × 158 mm × 192 mm 9.76 in × 6.22 in × 7.56 in |
| Net Weight | 0.3 kg 0.66 lbs |

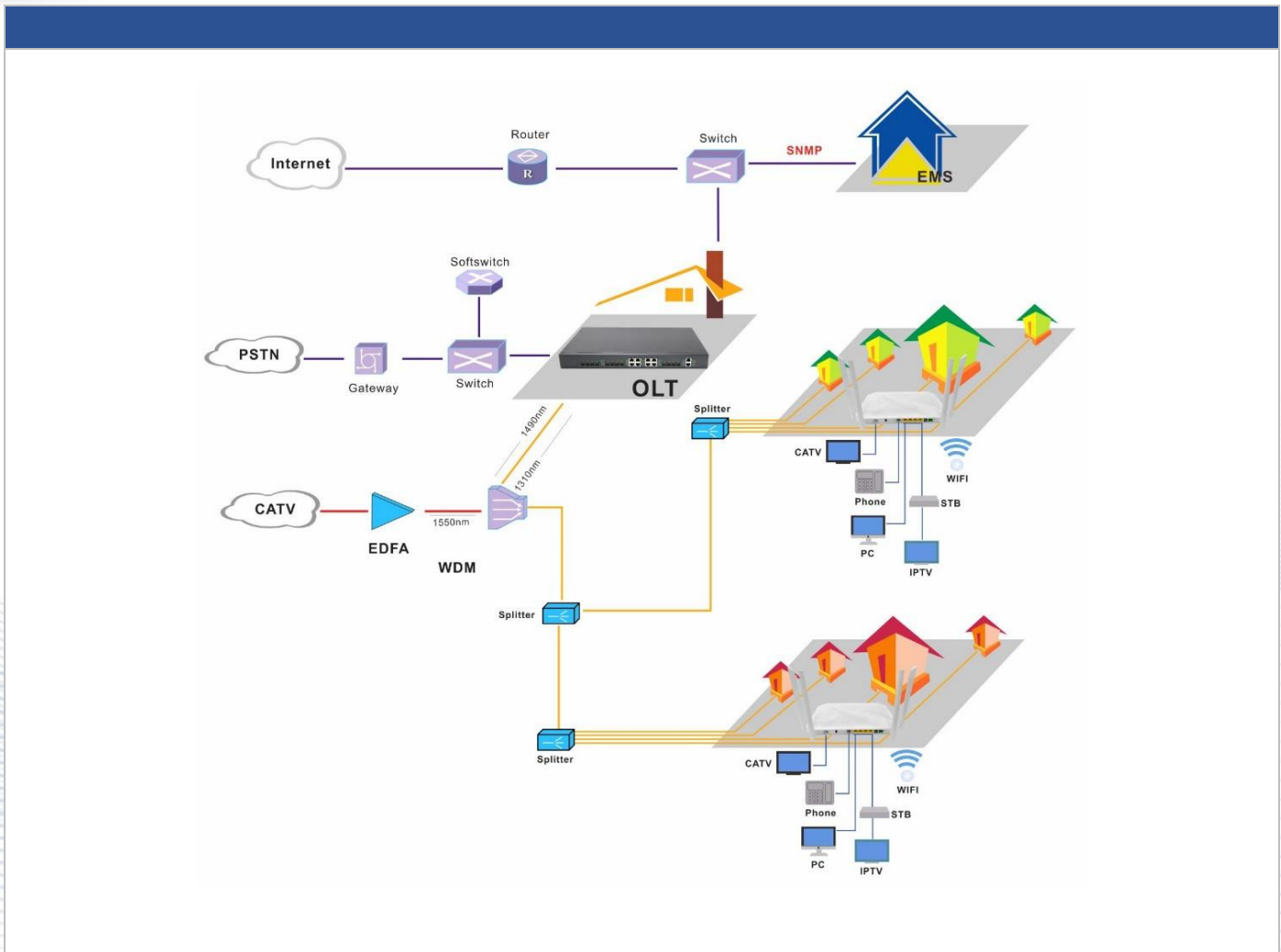
PANEL LIGHTS INTRODUCTION

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|----------------------|-------|---|
| 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

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

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Contact Us
www.sunwave.com