

User Manual

AX3000 Dual Band XPON Terminal
Model: X302



Package Content:

1. X302 *1
2. Power Adapter *1
3. Quick Installation Guide *1

DECLARATION

This manual mainly introduces the function, use, operation method and so on of the products. This manual is only used as a user guide, not as a service basis. Due to continuous improvement of products, design and specifications are subject to change without notice. Products in kind prevail. For details, please check with the dealer.

PROMPT

Pictures used in this manual are for reference only. The information provided in this manual may be amended without notice, and Micronet Union reserves the right of final explanation of the said information.

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Warnings and Precautions

1. Before using and operating the equipment, please read and follow the following precautions to ensure that The standby performance is stable and dangerous or illegal situations are avoided.
2. To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. The device shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
3. The direct plug-in adaptor is used as disconnect device, the disconnect device shall remain readily operable.
4. To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
5. Use only the AC adapter which is included in the product package. Any other adapter may cause damage to the device. Such damage is not covered under warranty.
6. The power adaptor is used as the power interrupting device. Please pay attention to safety plug and pull and convenient operation.
7. Do not expose the appliance to naked flame sources (for example, lighted candles).
8. Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
9. Only accessories approved by the equipment manufacturer and compatible with this type of equipment can be used. If used Other types of accessories that may violate the warranty of the equipment and the country in which the equipment is located Relevant regulations and may lead to security incidents. To obtain approved accessories, please contact the authorization Contact the service center.
10. Please use and store the equipment and its accessories within the temperature range of 0°C~55°C. When the temperature is



over If the value is too high or too low, device faults may occur.

11.  Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer or service operator where the product was purchased. They can take this product for environmental safe recycling.

Introduction

X302 is a gateway ONT that uses GPON/EPON technology to achieve ultra-broadband access for users. It supports 802.11ax dual-band WiFi, provides four GE Ethernet ports, two POTS voice ports, and one USB port, and provides high-performance forwarding function to ensure high-quality voice, Internet, and high-definition video services.

Product Features

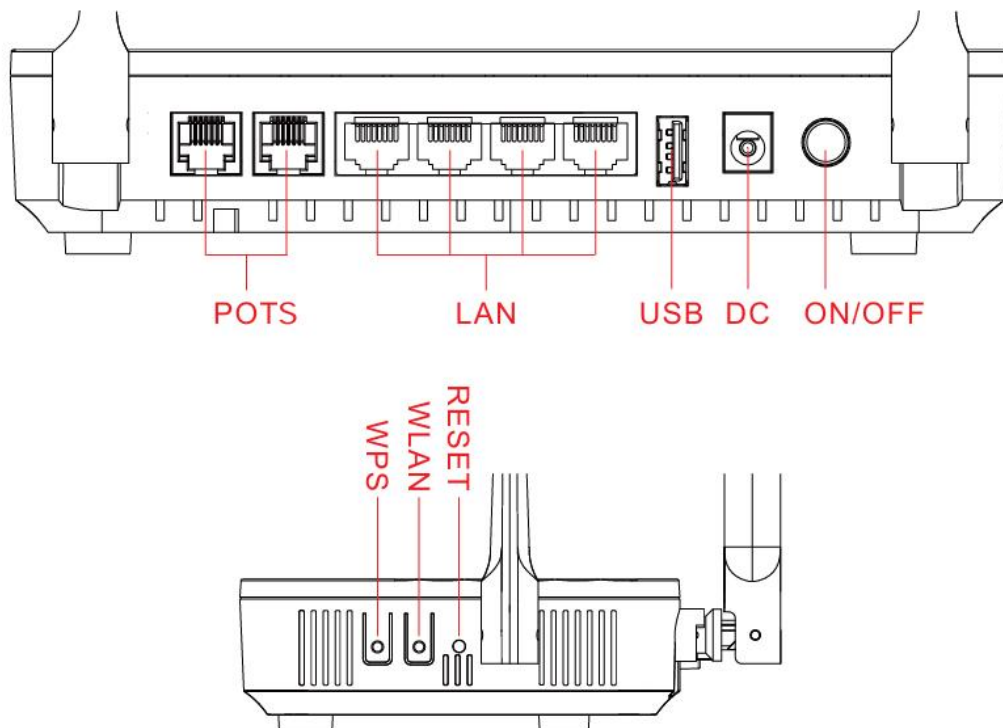
1. EPON/GPON dual-mode access
2. Dual band WIFI, with a physical air port speed of up to 3000Mbps
3. Supports multiple services such as internet, WiFi, voice
4. 2.5G downlink and 1.25G uplink compliant with ITU-T G.984 standard
5. Compliant with IEEE802.3ah protocol standard, supports 1.25G symmetric rate

Technical Parameters

Module	Parameters
Product Size:	186mm(L)×115mm(W)×42mm(H)
Weight:	423g
Interfaces:	4*10/100/1000M RJ45 port 2*POTS 1*USB 2.4G Wi-Fi & 5G Wi-Fi
PON:	EPON&GPON mode adaptive Interface Type: SC-UPC/SC-APC Security: ONU authentication mechanism Network Coverage Radius: 20KM GPON: upstream 1.25Gbps/downstream 2.5Gbps Optical Receive Sensitivity: -7dBm~-28dBm Continuous Light Power: 0.5dBm~5dBm EPON: upstream 1.25Gbps/downstream 1.25Gbps Optical Receive Sensitivity: -7dBm~-27dBm Continuous Light Power: 0dBm~4dBm
Ethernet:	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100M Distance
WiFi:	Compliant with IEEE802.11b/g/n/ax (2.4G) & IEEE802.11a/n/ac/ax (5G) standard 2.4GHz 2×2, 5.8GHz 2×2, 5dBi antenna Rate up to 3Gbps
Rated Power Input:	12VDC, 2A
Power Consumption	18W

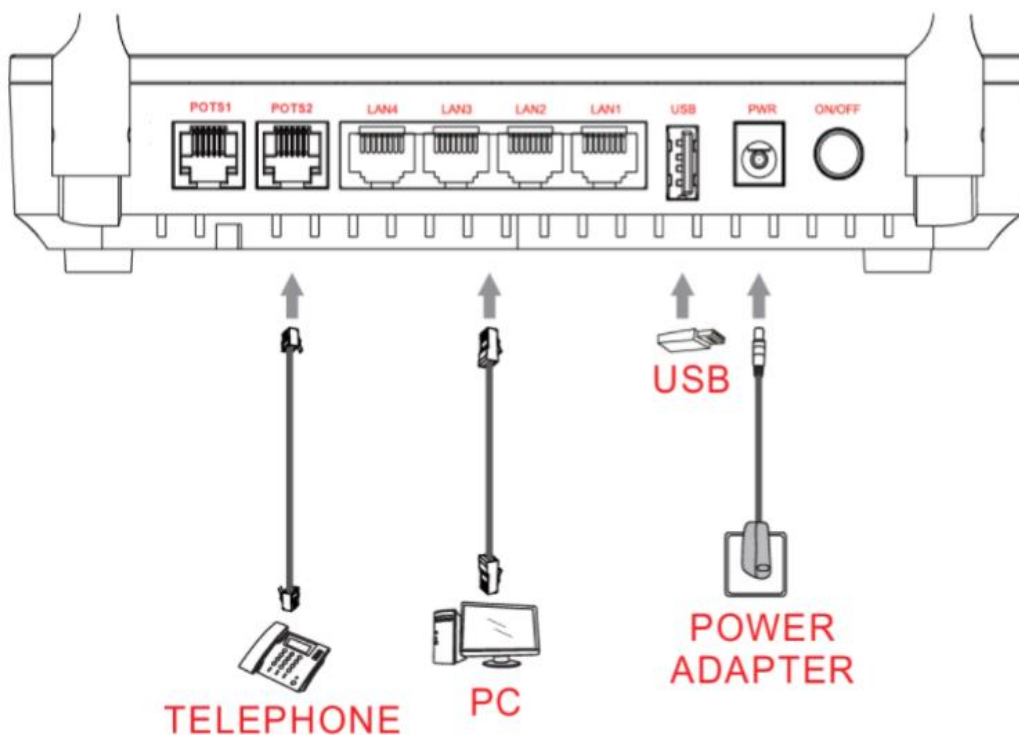
Operating Temperature & Humidity:	Operating Temperature: 0°C~55°C Operating Humidity: 5%~95%(non-condensing)
Storage Temperature & Humidity:	Storage Temperature: -10°C~70°C Storage Humidity: 5%~95%(non-condensing)
Buttons:	Power ON/OFF, WPS, WLAN, RESET
LED Indicators:	Power, LOS, PON, LAN1~LAN4, NET, 2.4G, 5G, USB, VOIP, WPS

Interface and Button



Installation

1. Take out the power adapter, plug the power connector into the device, and press the ON/OFF button to power on the device.
2. Connect the optical Fiber cable to the PON port.
3. Connect one end of the Ethernet cable to the LAN port, and the other end to your personal computer.



Configuration

1. Use the SSID and Wireless password provided on the device label to establish a wireless connection. Locate the SSID on your smartphone or notebook, and enter the Wireless password when prompted to connect.
2. Press the WPS button on the device, and observe the 2.4G indicator and 5G indicator blinking alternately. Subsequently, press the WPS button on the client device. In the event of a



WPS method failure, utilize the SSID and wireless password to establish a WiFi connection.

3. Open a web browser and navigate to <http://192.168.1.1>. Enter the default User Name and Login Password, then click Login. After successfully logging in, you can configure the settings on the web page.

LED Description

LED Status		Description
POWER	On	The power is on and working properly.
	Off	The power is off or faulty.
LOS	Blinking	No optical signal is detected.
	Off	Optical signal is detected.
PON	On	A connection is set up between the ONT and its upper-layer device.
	Blinking	The ONT attempts to set up a connection with its upper-layer device.
	Off	The ONT is not connected to fibers or does not receive optical signals.
LAN1 -LAN4	On	LAN port is properly connected.
	Blinking	Data are being transmitted.
	Off	LAN port is not connected.
NET	On	At least one WAN connection is up.
	Off	All WAN connections are down.
2.4G	On	2.4GHz Wi-Fi is turned on.
	Blinking	2.4GHz Wi-Fi data are being transmitted.
	Off	2.4GHz Wi-Fi is turned off.

5G	On	5GHz Wi-Fi is turned on.
	Blinking	5GHz Wi-Fi data are being transmitted.
	Off	5GHz Wi-Fi is turned off.
USB	On	External device is connected.
	Blinking	Data are being transmitted.
	Off	No external device is connected.
VOIP1 -VOIP2	On	The VOIP server has been registered.
	Blinking	The VOIP service is in use.
	Off	The VOIP server is not registered.
WPS	On	Device is successfully connected through WPS function.
	Blinking	Device is being connected through WPS function.
	Off	WPS function is not enabled, or the device is not connected through WPS.

Button Description

Button	Description
ON/OFF	Turn on/off the device.
Reset	Press the button for 3 to 5 seconds to reboot the device. Press the button for more than 5 seconds to restore the factory settings.
WLAN	Press the button for 1 to 3s to enable or disable the WLAN function.
WPS	Press the button for more 1s to connect the device through WPS.



Manufacture Information

Manufacturer: Micronet Union Technology (Chengdu) Co., Ltd.

Address: Room 502, Building 5, No. 528, Yuefei Road, Shibantan Street, Xindu District, Chengdu, Sichuan

Micronet Union Technology (Chengdu) Co., Ltd. declares that the AX3000 Dual Band XPON Terminal is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

<https://www.micronet-union.com>



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.