



ACT AP300 XG-PON ONT

**Quick Reference
Guide**

Revision A

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This document is produced to assist professional and properly trained personnel with installation and maintenance issues for the product. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

For more information, contact ACT: support@ascentcomtec.com



Revision History

Revision	Date	Reason for Change
A	04/03/2019	Initial release

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Safety Precautions

To use the device properly and safely, read the safety precautions carefully before using the device and strictly observe these precautions when using the device.

Safety precautions:

- Do not look directly into the optical port without eye protection.
- Keep the device out of the reach of children as the components or accessories may be swallowed.
- The power supply voltage of the device must meet the requirements on the input voltage of the device.
- If the power adapter is damaged and its internal circuit is exposed due to man-made factors, do not touch the exposed circuit, which may bring safety risks.
- Prevent objects, such as metal, from entering the device through the heat dissipation hole.
- Dry your hands before connecting or disconnecting cables. Stop the device and switch off the power before connecting or disconnecting cables.
- Switch off the power and disconnect all cables, including the power cable, optical fiber, and network cable, during periods of lightning activities. The socket-outlet shall be installed near the power adapter and shall be easily accessible. Before use the power adapter, please check no damage on the adapter.
- Do not lead the strength member of the optical fiber or other metal parts indoors. Do not install network cables, power adapters or power adapter cables outdoors. Adopting these measures will help prevent device damage and bodily injuries which are especially prone during thunderstorms.
- Install the device according to the requirements of the manufacturer. To be specific, reserve at least 10 cm for heat dissipation at the top and four sides of the device, keep the device away from flammable objects, highly magnetic or electric devices, such as microwave ovens, refrigerators, and mobile phones.
- Do not place any object on the device, so that the device will not be damaged due to overheating or deformation.
- If an abnormality occurs, for example, liquid entering the device, smoke, unusual sound, and smell, stop the device immediately, switch off the power, disconnect all cables (such as the power cable, optical cable, and network cable) to the device, and contact the authorized service center.
- Do not disassemble the device without permission. In the case of a device fault, contact the authorized service center.
- Dispose of the packing materials, expired batteries, and old or abandoned devices in accordance to local laws and regulations (recycling them is strongly recommended).
- Do not change the structure, safety design, or performance design of the device without prior authorization.

Fireproof precautions:

- Keep the device away from large heat source equipment, bare flames, and high-power devices, such as electric heaters, candles, and blow drier, to eliminate safety risks.
- If there are aged cables or power socket facilities on the power supply line to or near the device, replace them in time to eliminate safety risks. The power supply voltage of the device must meet the input voltage requirement.

1 Packing List

The following table lists the items in the product package.

Item	Quantity
GPON Terminal	1
Power Adapter	1
RJ45 Ethernet Cable	1
RJ11 Voice Cable	1
Quick Installation Guide	1



Note

If you find anything missing or damaged, contact the service provider.

2 Product Overview

Product	Function
AP 300	4 Gigabit Ethernet ports 1 FXS port 2 USB ports 2.4G (2x2MIMO) + 5G (2x2MIMO)

3 Technical Specifications

- Working temperature: 0 °C to +45 °C (32 °F to +104 °F)
- Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F)
- Working humidity: 10 % to 95 %, non-condensing
- Storage humidity: 5 % to 95 %, non-condensing

For other technical specifications, see the following table.

GPON Terminal	Weight (Including the Power Adapter)	Maximum System Power Consumption
AP300	About 1500 g	≤20 W

4 Hardware Installation

Step 1. Use an optical fiber to connect the optical port on the ONT.



Note

- The optical connector connected to the **OPTICAL** port is an SC/UPC connector.
- To ensure normal use of fibers, make sure that the fiber bend radius is larger than 30 mm.

Step 2. Use a network cable to connect the LAN port to an Access Point.

Step 3. Use a phone line to connect the TEL port to a phone or fax machine.

Step 4. Use a power adapter to connect the POWER port to the power socket.



Note

Do not use any power adapters that are not in the standard configuration. Otherwise, the device may be abnormal or unsafe.

Step 5. Use a USB data cable to connect the USB port to the USB storage device.

Step 6. Press the ON/OFF power switch.

Step 7. Press the WLAN switch to enable the Wi-Fi access function. By default, this function is enabled.

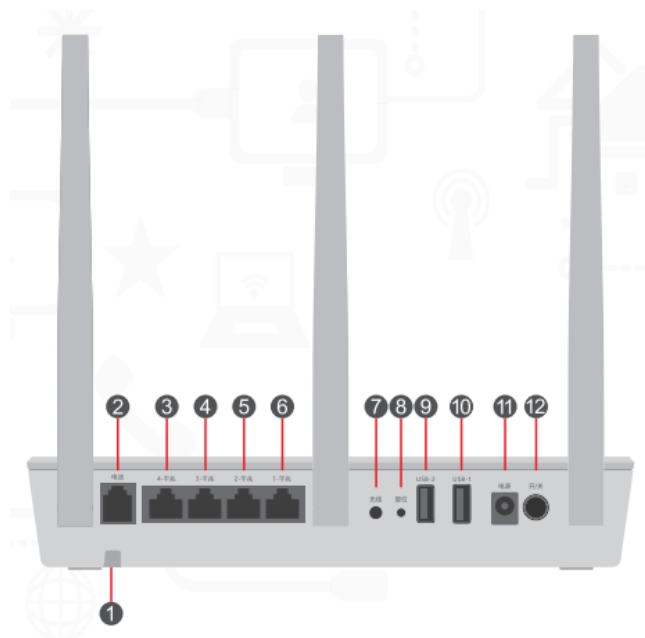
Step 8. Press the WPS switch to enable the WPS encryption function.



Note

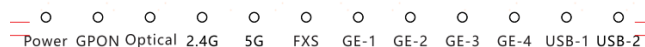
Before enabling the WPS encryption function of a GPON terminal, ensure that the function is set in the system software in advance. After successful setting, press the WPS switch for the settings to take effect.

AP 300 interfaces and buttons are described as the following table:



S.N.	Interface	Instructions
1	GPON	The optical port is equipped with a rubber plug and is connected to an optical fiber for transmission
2	FXS	RJ-11 interface used to connect the voice equipment
3 to 6	LAN1 to 4	Rj-45 GE Ethernet interface used to connect the Ethernet interface of the computer.
7	WIFI	Turn on/off WiFi function
8	Reset	Restore the factory Settings button.
9 to 10	USB1 to USB2	USB Host interface for connecting USB interface storage devices.
11	Power	12 V DC power input interface to connect the power adapter.
12	On/Off	A power switch used to connect or disconnect a device's power supply.

AP 300 indicator lights are explained as follows:



S.N.	LED Function	LED Mark	Color	LED Status	Description
1	Power ON/OFF Status	POWER	Green	On	The device is receiving power and working properly
				Off	The power supply is cut off
				Blink (4 Hz)	The device is starting up
2	GPON ONT Layer connectivity	GPON	Green	On	The device is linked successfully to an OLT
				Off	The GPON link is down
				Blink	The device is initializing to an OLT
3	Optical Status	Optical	Red	Blink (4 Hz)	The device receives optical power below its sensitivity
				Off	Optical signal reception is normal
				Blink (4 Hz)	Optical is connecting
4 to 5	WiFi Status	WiFi	Green	On	Optical is connected
				Off	Wi-Fi enabled
				Blinking (4 Hz)	Wi-Fi disabled
6	Voice Status	Voice	Green	On	Wi-Fi is transmitting/receiving
				Off	Voice enabled
				Blinking (4 Hz)	Voice disabled
7 to 10	LAN Status	LAN	Green	On	Voice is transmitting/receiving
				Off	Ethernet enabled
				Blinking (4 Hz)	Ethernet disabled
11 to 12	USB Indicator	USB	Green	On	Ethernet is transmitting/receiving
				Off	This device is connected to USB
				Blink (4 Hz)	This device is not connected to USB
					USB is being used

5 Web configuration

5.1 Configure IP Address of Network Card

Configure TCP/IP properties of your network card to Obtain an IP address automatically from ONU, or set the IP address of the computer with the same network mask of the ONU.

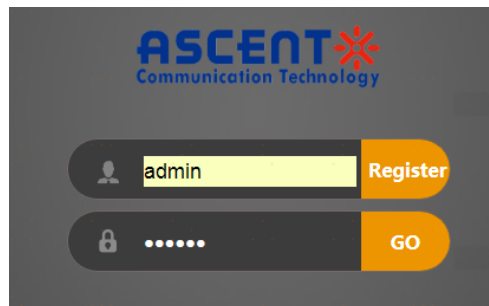
PS:The default management IP address and subnet mask of the GPON terminal are as follows:

- IP address: 192.168.1.1
- Subnet mask: 255.255.255.0

5.2 Log In

Step 1. Open browser, and input “192.168.1.1” in the address bar and press enter

Step 2. In the Sign in window that is displayed, enter the user name(admin), password(ascnt).



Step 3. After finishing, click Sign in to enter the main interface.



Note

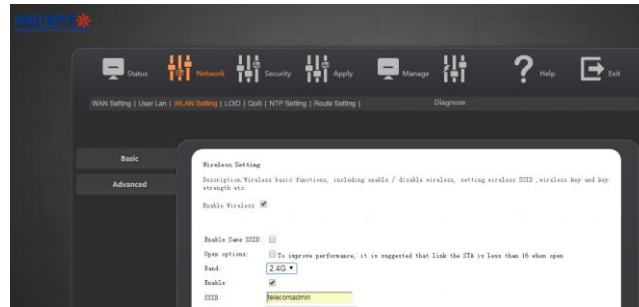
If you do not perform any operations after logging in to the system for five minutes, you will logout automatically.

5.3 Wireless Settings

Step 1. Log in to enter the main interface.

Step 2. In the navigation tree, choose Wireless > WLAN 2.4G > Basic.

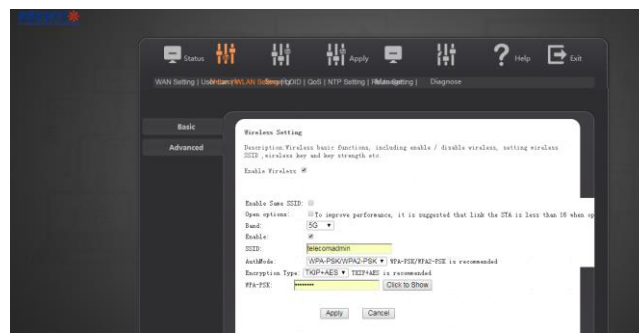
Step 3. In the pane, select the Enable Wireless option box. In the dialog box that is displayed, set the basic Wi-Fi parameters, including the SSID, WMM, WMM. Click Apply/Save.



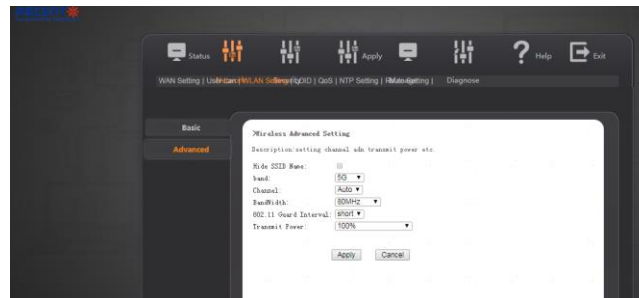
Note

SSID: SSID indicates the name of a wireless network searched by the Wi-Fi terminal (see the device nameplate for the default SSID).

Step 4. Choose Security, set authentication mode, and encryption mode. Click Apply/Save.



Step 5. Choose Advanced, set other Wi-Fi parameters. Click Apply/Save.



Note

WPA PSK: WPA PreSharedKey indicates the authentication password for the Wi-Fi terminal to access a wireless network (see the device nameplate for the default WLAN Key).



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