

Quick Installation Guide

N300 Wi-Fi xPON ONT HG3

Package contents

- xPON ONT x 1
- Power adapter x 1
- Ethernet cable x 1
- User manual x 1

For product or function details, please go to <u>www.tendacn.com</u> to download the user guide.

Get to know the ONT

LED indicators



LED indicator	Color	Status	Description
DMD	Groop	Solid on	The ONT is powered on properly.
PWR	Gleen	Off	The ONT is powered off or not powered on properly.
		Solid on	The ONT is registered successfully.
PON	Green	Blinking	The registration is not completed (unregistered or registering).
		Off	The received optical power is lower than the optical receiver sensitivity, or no fiber cord is connected.
	D. J	Blinking	The received optical power is lower than the optical receiver sensitivity.
LOS	Rea	Off	The received optical power is within the optical receiver sensitivity.
		Solid on	There is at least one LAN port connected properly, but no data is being transmitted over the corresponding port.
LAN	Green	Blinking	There is at least one LAN port connected properly, and data is being transmitted over the corresponding port.
		Off	No Ethernet device is connected or the Ethernet device is not connected to any LAN port properly.
		Solid on	The Wi-Fi network is enabled, but no data is being transmitted wirelessly.
WIAN	Creation	Blinking slowly (0.5s)	The Wi-Fi network is enabled, and data is being transmitted wirelessly.
VVL/ UV	Green	Blinking quickly (0.25s) The ONT is performing or pending for WPS negotiation	The ONT is performing or pending for WPS negotiation.
		Off	The Wi-Fi network is disabled.

Ports & Button



Port/Button	Description
WPS/RST	 WPS/Reset button. WPS: Wi-Fi-enabled devices can connect to the Wi-Fi networks of the ONT without entering the password through WPS negotiation. Press the button for 1 to 3 seconds to start the WPS negotiation process of the ONT. The WLAN LED indicators blink quickly. Within 2 minutes, enable the WPS function on a WPS-supported device to establish a WPS connection. Reset: Restore the ONT to the configurations preset by the ISP. After the ONT completes startup, press the button for 8 seconds and release it. All LED indicators will light off in a few seconds. When the PWR LED indicator lights solid on again, the ONT is restored to the configurations preset by the ISP.
PON	Optical fiber port. Used to connect to a fiber cord.
LAN1-GE/LAN2	1000/100 Mbps LAN port. Used to connect to a router, switch, computer or IPTV set-top box.
PWR	Power jack. Please use the included power adapter to connect the ONT to a power source.

1. Connect and register the ONT



Caution, laser

DO NOT look directly at the **PON** port when the device is powered on, as well as the terminal of the indoor fiber cord, to prevent any harm to your eyes.

Connect the ONT as shown in the figure. The ONT automatically adapts to the fiber access type. Wait until the **PON** LED indicator lights solid on, then the ONT is registered successfully.



·̀Ó· Tips:

If your ISP provides any parameters for registration, you can use them to manually register the ONT. Method:

- Use an Ethernet cable to connect a LAN port of the ONT to a computer, or connect your smartphone to the Wi-Fi network of the ONT using the SSID (Wi-Fi name) and Key (Wi-Fi password) on the bottom label.
- Enter 192.168.1.1 in a web browser and log in to the web UI of the ONT (default login user name and password are both admin).
- Navigate to Admin > GPON Settings (or EPON Settings) and enter the parameters provided by ISP.

2. Configure the internet access



Choose a desired mode to configure your internet access:

- Router mode: Choose this mode if your internet access type is PPPoE or DHCP.
- Bridge mode (default): Choose this mode if your internet access type is PPPoE.

Router mode

Option 1 Access internet over PPPoE

Step 1: Log in to the web UI

- Connect a LAN port of the ONT to a computer using an Ethernet cable, or connect your smartphone to the Wi-Fi network of the ONT using the SSID (Wi-Fi name) and Key (Wi-Fi password) on the bottom label.
- Ø Start a web browser and visit 192.168.1.1.
- Enter the User Name and Password (admin for both by default).
- Olick Login.



·ᢕ́- Tips:

If the above page does not appear, refer to Q1 in FAQ.

Step 2: Set up a WAN connection

- O Choose WAN > PON WAN.
- O Tick Enable VLAN, and enter the VLAN ID provided by your ISP.
- Set Channel Mode to PPPoE.
- Set Connection Type to INTERNET.
- Enter the PPPoE UserName and Password provided by your ISP.
- Set other parameters according to your ISP and your own need.
- O Click Apply Changes.

nas0_0 🔻	
Enable VLAN:	
VLAN ID:	
802.1p_Mark	0 🔻
Multicast Vlan ID: [1-4094]	
Channel Mode:	PPPoE 🔹
Enable Bridge:	
Bridge Mode:	Bridged Ethernet (Transparent Bridging)
Admin Status:	Enable O Disable
Connection Type:	INTERNET 🔻
MTU:	1492
Enable IGMP-Proxy:	
Enable MLD-Proxy:	
IP Protocol:	IPv4 ▼
DDD Settings:	
LiserName [,]	·····
Password:	
Type:	Continuous 🔻
AC Name:	
Service-Name:	
Port Mapping:	
LAN_1	LAN_2
WLAN0	
WLANO-AP1	WLANO-AP2
WLANO-AP3	WLANO-AP4

Done.

To access the internet:

- Connect your wired device, such as a computer, to a LAN port of the ONT.
- Connect your wireless device, such as a smartphone, to the Wi-Fi network of the ONT using the
 SSID (Wi-Fi name) and Key (Wi-Fi password) on the bottom label.

·`Ċ́- Tips:

- If you cannot access the internet after the configuration, refer to Q2 in FAQ.
- If you want to change the Wi-Fi name and password, refer to Q5 in FAQ.

Option 2 Access internet over DHCP

Step 1: Log in to the web UI

Refer to <u>Step 1: Log in to the web UI in Option 1 Access internet over PPPoE</u> under **Router mode** to log in to the web UI of the ONT.

Step 2: Set up a WAN connection

- Choose WAN > PON WAN.
- O Tick Enable VLAN.
- Senter the VLAN ID provided by your ISP.
- Set Channel Mode to IPoE.
- Set Connection Type to INTERNET.
- O Click Apply Changes.

nas0_0 🔻	
Enable VLAN:	
VLAN ID:	
802.1p_Mark	0 🔻
Multicast Vlan ID: [1-4094]	
Channel Mode:	IPoE 💌
Enable Bridge:	
Bridge Mode:	Bridged Ethernet (Transparent Bridging)
Admin Status:	● Enable ○ Disable
Connection Type:	INTERNET 🔻
MTU:	1500
Enable IGMP-Proxy:	
Enable MLD-Proxy:	
IP Protocol:	IPv4 ▼
WAN IP Settings:	
Туре:	O Fixed IP O DHCP
Local IP Address:	0.0.0.0
Remote IP Address:	0.0.0.0
Subnet Mask:	255.255.255.0
IP Unnumbered	
Request DNS	Enable ODisable
Primary DNS Server	
Secondary DNS Server	
Port Mapping:	
WLANO AD1	
WLANO-AP1	VVLANU-AP2

Done.

To access the internet:

- Connect your wired device, such as a computer, to a LAN port of the ONT.
- Connect your wireless device, such as a smartphone, to the Wi-Fi networks of the ONT, using the SSID (Wi-Fi name) and Key (Wi-Fi password) on the bottom label.

·̀ᢕ́- Tips:

- If you cannot access the internet after the configuration, refer to Q2 in FAQ.
- If you want to change the Wi-Fi name and Wi-Fi password, refer to Q5 in FAQ.

Bridge mode

·ˈĊː Tips:

When the ONT is set to Bridge mode, please configure internet settings based on ISP requirements.

Access internet over PPPoE

• Connect a LAN port of the ONT to the WAN port of a router using an Ethernet cable.

Oconnect your computer to a LAN port of the router using an Ethernet cable.

Set up a PPPoE connection on the router as required.

After the settings, you can access the internet through the router.



FAQ

Q1: I cannot log in to the web UI by visiting 192.168.1.1. What should I do?

A1: Try the following solutions:

- Ensure that the ONT is powered on properly (the PWR LED indicator is solid green).
- If you use a wireless device, such as a smartphone, to configure the ONT:
 - Ensure that your smartphone has disabled mobile data and is connected to the Wi-Fi network of the ONT.
 - Clear the cache of the web browser or change a web browser and try again.
 - Use another smartphone and try again.
- If you use a wired device, such as a computer, to configure the ONT:
 - Ensure that your computer is connected to the ONT properly (the LAN LED indicator of the connected port lights up).
 - Ensure that your computer is set to obtain an IP address automatically.
 - Ensure that the IP address of your computer is at the same network segment as the ONT.
 - Use another computer and try again.
- Reset the ONT (after the ONT completes startup, press the WPS/RST button down for 8 seconds and release it. All LED indicators light off in a few seconds. When the PWR LED indicator lights solid on again, the ONT is reset) and try again.

Q2: I cannot access the internet after the configuration. What should I do?

A2: Try the following solutions:

- Check the LED indicator status of ONT:
 - If the PWR LED indicator is off, ensure that the ONT is powered on properly.
 - If the LOS LED indicator blinks, ensure that the PON port is clean and connected properly, the fiber cord is not bent excessively and the input optical power is within the normal range (Rx Power between -28 dBm to -8 dBm on the Status > PON page).
 - If the **PON** LED indicator blinks, the ONT is not registered. Contact your ISP or verify the parameters for registration are correct.
- Ensure that your ISP supports self-purchased PON devices for internet access.
- If you set the ONT to the router mode:
 - Ensure that the ONT obtains a valid IP address and gateway on the Status > Device > WAN Configuration page. If not, the WAN connection is not set up successfully. Verify the parameters are correct.
 - Ensure that the wired device is connected to a LAN port of the ONT or downstream router (if any) properly and set to obtain an IP address automatically.
 - Ensure that the wireless device is connected to the Wi-Fi network of the ONT or downstream router (if any).
- If you set the ONT to the bridge mode, ensure that the router or computer used for dial up is connected and configured properly.

If the problem persists, consult your ISP.

Q3: I cannot find the Wi-Fi signal of the ONT on my wireless device. What should I do?

 A3: Ensure that the WLAN LED indicator lights up. If not, the Wi-Fi networks of the ONT are disabled. Enable the Wi-Fi networks of the ONT by performing the operations below and try again. Enable Wi-Fi networks: Connect a wired device, such as a computer, to the ONT and log in to the web UI of the ONT. Choose WLAN > Basic Settings and deselect Disable WLAN Interface and save the configurations.

Q4: How to reset the ONT?

- A4: Method1: After the ONT completes startup, press the WPS/RST button for 8 seconds and release it. All LED indicators will light off in a few seconds. When the PWR LED indicator lights solid on again, the ONT is reset.
 - Method2: Log in to the web UI of the ONT, choose Admin > Backup/Restore and click Reset on the page.

Q5: How to change the Wi-Fi name and password?

A5: Log in to the web UI of the ONT, and choose WLAN:

- Wi-Fi name: Choose Basic Settings, change the SSID (Wi-Fi name) and click Apply Changes.
- Wi-Fi password: Choose Security, set Encryption to WPA2 Mixed (recommended) and change the Pre-Shared Key (Wi-Fi password). Then, click Apply Changes.

Safety Precautions

Before performing an operation, read the operation instructions and precautions to be taken, and follow them to prevent accidents. The warning and danger items in other documents do not cover all the safety precautions that must be followed. They are only supplementary information, and the installation and maintenance personnel need to understand the basic safety precautions to be taken.

- Do not use the device in a place where wireless devices are not allowed.
- Please use the included power adapter.
- Mains plug is used as the disconnect device, and shall remain readily operable.
- The power socket shall be installed near the device and easily accessible.
- Operating environment: Temperature: 0 ℃ to 45 ℃; Humidity: (10% 90%) RH, non-condensing;
 Storage environment: Temperature: -40 ℃ to +70 ℃; Humidity: (5% 90%) RH, non-condensing.
- Keep the device away from water, fire, high electric field, high magnetic field, and inflammable and explosive items.
- Unplug this device and disconnect all cables during lightning storms or when the device is unused for long periods.
- Do not use the power adapter if its plug or cord is damaged.
- If such phenomena as smoke, abnormal sound or smell appear when you use the device, immediately stop using it and disconnect its power supply, unplug all connected cables, and contact the after-sales service personnel.
- Disassembling or modifying the device or its accessories without authorization voids the warranty, and might cause safety hazards.

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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.

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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

Technical Support

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