Installation Guide

Please read this installation guide before you start. You can visit our website at www.tendacn.com for more information about the router.

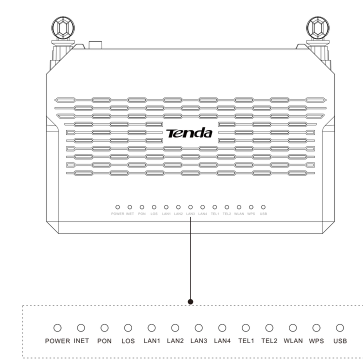
N300 Wireless VoIP GPON Router
Model: HG305-G

Packing List

- GPON Router * 1
- Power Adapter * 1
- Ethernet Cable * 1
- Phone Cable * 1
- Installation Guide * 1

1. Get to Know the Router

Top Panel

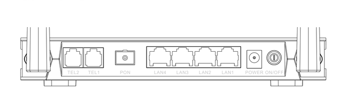


LED Indicator	Color	Status	Description
POWER	Green	Solid on	The ONU is connected to a power supply properly.
		Off	The ONU is not powered on, or not connected to a power supply.
INET	Green	Solid on	The Ethernet connection is established successfully.
		Blinking	The ONU is transmitting or receiving data.
		Off	The ONU does not obtain a correct IP address, or Ethernet connection does not exist.
PON	Green	Solid on	The ONU is succeeded in being activated.
		Blinking	The ONU is being activated.
		Off	The ONU is failed to be activated.
LOS	Red	Blinking	The receiving optical power of the ONU is lower than the sensitivity of the optical receiver.
		Off	The ONU is receiving optical power properly.
LAN1/2/3/4	Green	Solid on	The LAN port is connected to a device properly, but no data is being transmitted.
		Blinking	The LAN port is transmitting or receiving data.
		Off	The LAN port is not connected to a device properly.

LED Indicator	Color	Status	Description
TEL1/2	Green	Solid on	The soft switch is succeeded in being registered by the ONU, but no traffic is being transmitted.
		Blinking	The traffic is being transmitted.
		Off	The soft switch is failed to be registered by the ONU.
WLAN	Green	Solid on	The wireless function is enabled, and no data is being transmitted.
		Blinking	The ONU is transmitting or receiving data in wireless manner.
		Off	The wireless function is disabled.
WPS	Green	Solid on	The WPS negotiation is successful.
		Blinking	The ONU is performing WPS negotiation.
		Off	The WPS feature is disabled, or the WPS negotiation fails.
USB	Green	Solid on	The USB port is connected to a device properly, and works in Host manner. But no data is being transmitted.
		Blinking	The USB port is transmitting or receiving data.
		Off	The USB port is not connected to a device.

1. Get to Know the Router

Rear Panel

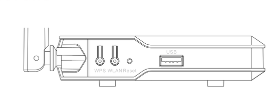


Button/Port	Description
ON/OFF	Power button. Used to turn on/off the ONU.
POWER	Power jack. Used to connect to a power receptacle using the included power adapter for power supply.
LAN1/2/3/4	LAN ports. Used to connect to a computer, set-top box, router, switch, and so on.
PON	SC/APC optical fiber port. Used to connect to the internet.
TEL1/2	POTS ports. Used to connect to a telephone or fax machine.

NOTE

Caution, laser
DO NOT look directly at the PON port when the router is powered on, neither the terminal of the indoor fiber cord, to prevent any harm to your eyes.

Side Panel

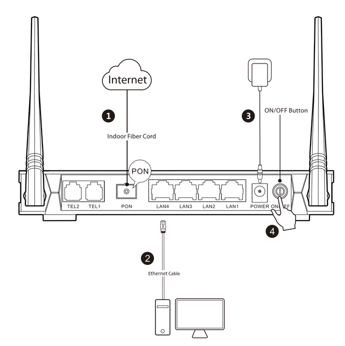


Button/Port	Description
WPS	WPS button. Press it to perform WPS negotiation.
WLAN	WiFi button. Press it to enable/disable WiFi.
Reset	Reset button. Hold it down for 5 seconds to restore the factory settings of the router. Restoring the router to factory settings clears all settings of the router. You need to configure the router again for internet access.
USB	USB port. Used to connect to a USB flash disk for resources sharing.

Tips

Anti-static Precaution
Electrostatic adsorption occurs if dust falls onto the router, which may disable the router to work properly. To prevent this problem, keep the air in the ambient environment clean and regularly perform dedusting.
Environment Requirements
Operating temperature: 0 °C~40 °C Operating humidity: 10%~90% RH non-condensing

2. Connect the Router

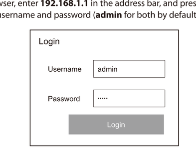


Step 1: Connect the PON port to the internet using an indoor fiber cord.
Step 2: Connect a computer to one of the LAN ports of the router.
Step 3: Connect the router to a power receptacle using the included power adapter.
Step 4: Turn on the router.

3. Configure the Router

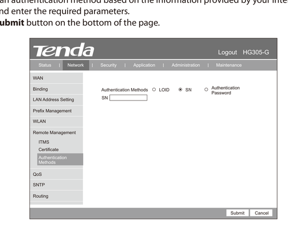
Step 1: Log in to the web UI of the router

1. Start a web browser, enter **192.168.1.1** in the address bar, and press **Enter** on the keyboard.
2. Enter the login username and password (**admin** for both by default), and click **Login**.



Step 2: Perform the registration process

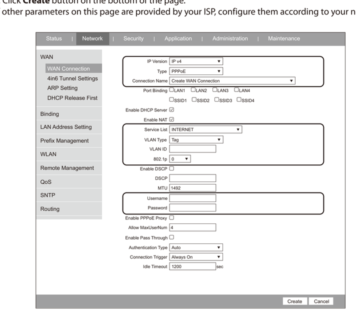
1. Choose **Network** > **Remote Management** > **Authentication Methods** to enter the configuration page.
2. Select an authentication method based on the information provided by your internet service provider (ISP), and enter the required parameters.
3. Click **Submit** button on the bottom of the page.



Step 3: Create a WAN connection

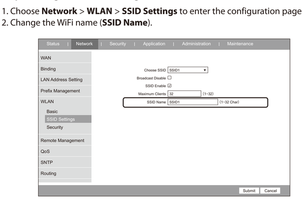
1. Choose **Network** > **WAN** > **WAN Connection** to enter the configuration page.
2. **IP Version:** Select your IP version. Take **IPv4** as an example.
3. **Type:** Select your connection type. Take **PPPoE** as an example.
4. **Connection Name:** Select **Create WAN Connection**.
5. **Service List:** Select a service type from the drop-down list. Take **INTERNET** as an example.
6. **VLAN Type:** Select a VLAN type. Take **Tag** as an example.
7. **VLAN ID:** Enter the VLAN ID provided by your ISP.
8. **802.1p:** Specify a priority for the WAN service based on the information provided by your ISP.
9. **Username:** Enter the PPPoE user name provided by your ISP.
10. **Password:** Enter the PPPoE password provided by your ISP.
11. Click **Create** button on the bottom of the page.

* If other parameters on this page are provided by your ISP, configure them according to your needs.

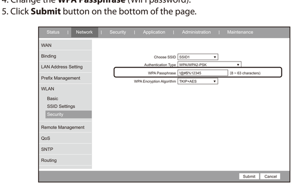


Step 4: Configure the WiFi settings

1. Choose **Network** > **WLAN** > **SSID Settings** to enter the configuration page.
2. Change the WiFi name (**SSID Name**).



3. Choose **Network** > **WLAN** > **Security** to enter the configuration page.
4. Change the **WPA Passphrase** (WiFi password).
5. Click **Submit** button on the bottom of the page.



---End.

FAQ

Q1: I cannot access the web UI of the router after I enter 192.168.1.1 in the address bar. What should I do?

A1: Try the following solutions one by one to troubleshoot the problem:

- Verify that the Ethernet cable is connected properly and the corresponding LED lights are in normal status.
- Check the IP address settings of your computer. Verify it is set to Obtain an IP address automatically.
- Connect your computer to another LAN port of the router.
- Clear the cache of your web browser.
- Try entering 192.168.1.1 in the address bar of another browser to log in.
- Try login on another computer.
- Hold down the **Reset** button for about 5 seconds to reset the router to factory default. Then enter 192.168.1.1 in the address bar of a web browser to login again.

Q2: The router (ONU) cannot be registered. What should I do?

A2: Try the following solutions one by one to troubleshoot the problem:

- Verify that the fiber cord is connected to the router properly.
- Check the status of the LOS LED indicator. If it stays blinking, check whether the optical module input power is within its normal range of -8~-28 dBm which is displayed on the **Status** > **Network Information** > **GPON Information** page of the web UI. If not, verify that the fiber terminal is clean, and the fiber is not bent excessively.
- Check the status of the PON LED indicator. If it is off, check whether you select correct authentication method, and the authentication information you entered is correct.
- If the problem persists, contact your ISP.

Q3: The registration is successful but I cannot access the internet. What should I do?

A3: Try the following solutions one by one to troubleshoot the problem:

- Check whether the GPON router obtains valid IP address, DNS, and gateway information which is displayed on the **Status** > **Network Information** > **IPv4/IPv6 Connection** page of the web UI. If not, verify that the WAN connection you create is correct and valid.
- Verify that the IP address of your computer is set to "**Obtain an IP address automatically**".
- If your problem still persists, contact your ISP.

Q4: I forget the login password. What should I do?

A4: Hold down the **Reset** button on this device for about 5 seconds to restore it to factory default. Then try login with the default user name and password (**admin** for both).

CE

CE Mark Warning
This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.
This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.
Declaration of Conformity
Hereby, SHENZHEN TENDA TECHNOLOGY CO. LTD. declares that the radio equipment type HG305-G is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
http://www.tendacn.com/en/service/page/ce.html
Operate Frequency: 2.4GHz-2.4835GHz
EIRP Power (Max.): 18dBm
Software Version: V1.0.0.0

Caution:

Adapter Model: BN063-A12012E
Manufacture: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD.
Input: 100-240 V AC 50/60 Hz 0.4 A
Output: 12 V DC 1 A
⎓ : DC Voltage

RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.
User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

FC

FCC Statement
This device is restricted to be used in the indoor.
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.
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 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 Caution:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Radiation Exposure Statement
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.
NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

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