

Tenda

Install Guide

G3
QoS VPN Router

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Chapter 1 Product Overview

1.1 Introduction

Tenda G3 is a multi-WAN router which has integrated into load balancing, flow control, access filter and portal authentication features, etc. It also functions as a wireless access controller to connect access points (compatible with all Tenda APs) for monitoring, management, and configuration of your wireless LAN. VPN includes IP Sec, PPTP, and L2TP; up to 32 concurrent tunnels are supported. The product can help small and medium enterprises deploy network efficiently and safely.

1.2 Package Contents

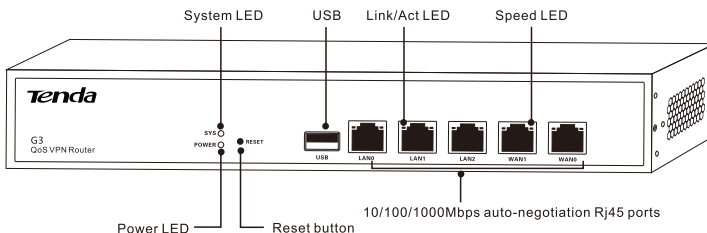
Open the box and verify the followings:

- 1 Tenda G3
- 1 Power cord
- 1 Ethernet cable
- 6 Screws
- 2 L-shaped brackets
- 4 Rubber footpad stickers
- 1 Install Manual

If any of the items is missing or damaged, contact your dealer for replacement as soon as possible.

1.3 Appearance

1.3.1 Front Panel



↘ LED

LED	Color	Status	Description
POWER	Green	Solid	The device is connected to the power supply properly.
		Off	The device is malfunctioning or not connected to the power supply.
SYS	Green	Flashing	Device system is working properly.
		Solid	Device system is working improperly.
		Off	The device has not booted yet.
Link/Act	Orange	Solid	The corresponding port is connected.
		Flashing	The corresponding port is transmitting data.
		Off	The corresponding port is connected improperly or not connected.
Speed	Green	Solid	The corresponding port connectivity speed is up to 1000Mbps.
		Off	The corresponding port is disconnected or the connectivity speed is up to 10/100Mbps.

↘ RESET

Press this button for about 5 seconds and then release it; in approximately 1 minute, the device will restore to its factory default settings.

↘ USB

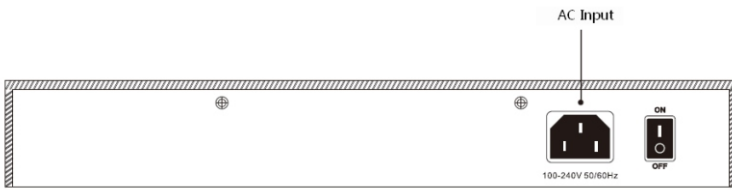
Currently, the device does not support USB feature. It is reserved for the future using (file sharing, data auditing, etc.).

↘ Interfaces

The device provides five 10/100/1000Mbps auto-negotiating RJ45 ports, each of which is equipped with one Link/Act LED and one Speed LED.

By default, there are four LAN ports and one WAN port. Three of them are LAN/WAN multiplexing ports, which means you can configure each of them as a LAN or WAN port according to your needs.

1.3.2 Back Panel



➤ AC Input (port)

Power input port

(Please use the included power cord to connect the device to the power supply.)

➤ ON/OFF (button)

Power button; turn on/off the device.

Chapter 2 Device Installation

2.1 Installation Notes

To ensure service of this product, and for your own personal safety, please follow the note below.

2.1.1 Safety Alert

- Wear anti-static gloves while installing, and connect the device to power after finishing other installation.
- Use the included power cord to power the device.
- Make sure the input voltage matches the value which is marked on the device's label.
- Place the device in a well-ventilated and dry environment.
- Do not open the device case.
- Turn off the power connection if you want to clean the device. Do not clean the device with any liquid cleaner.
- Position the device away from any strong electrical currents.



There is a Tenda seal on one of the screws on the covering of the device. In case of needing repair, keep the seal unbroken until the agent supervises the maintenance. The user should not break the seal of the coverage without permission of the local agent, otherwise will be responsible for any damage.

2.1.2 Environmental Requests

🔽 Temperature/Humidity

Item	Temperature	Humidity
Operation Environment	-10°C~45°C	10% ~ 90% RH (non-condensing)
Storage Environment	-40°C~70°C	5% ~ 90% RH (non-condensing)

✎ Anti-static Precautions

To protect the device from static electricity harm, do as the following.

- Keep the device working in a clean and clear environment.
- Clean the device regularly.
- Ground the device well to dissipate static electricity.

✎ Lightning Protection

To protect the device from a lightning strike or power surge:

- Properly round the device, rack and workbench.
- Cable the device properly, and if you need to cable outdoors, incorporate lightning arresters into the setup.

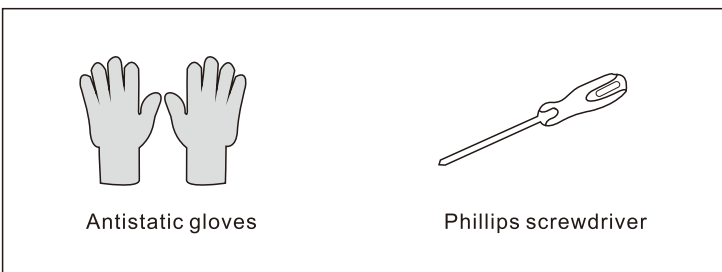
✎ Mounting Instructions

No matter whether it is rack-mounting or desktop-mounting,

- Make sure the hardware which supports the device is stable.
- Position the device in a well-ventilated environment, and keep it at least 10cm free on all sides for cooling.
- Do not place any heavy objects on the device.
- Keep vertical distance of at least 1.5cm between components for rack-mount installations.

2.1.3 Installation Tools

Things you'll need.



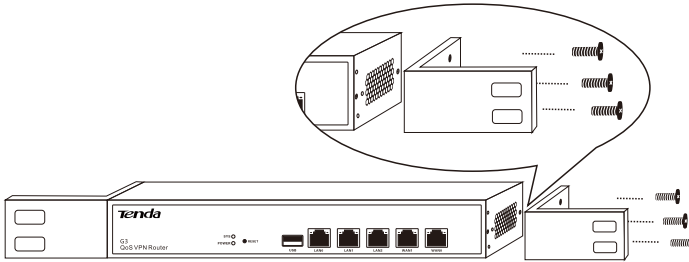
2.2 Installation

The device can be installed either in a rack or a flat surface (desktop/workbench).

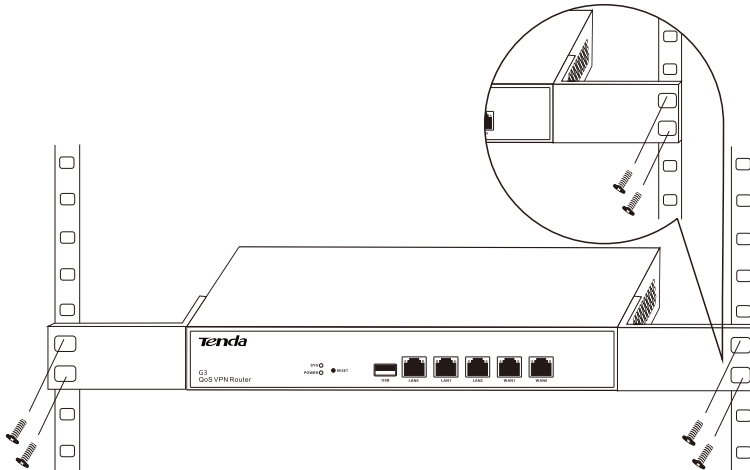
2.2.1 Rack-mounting

You can install the device in a standard 19-inch rack with the accessories (L-shaped brackets and screws) that come in the box.

- 1) Fix the rack, in place ensuring it is stable and level.
- 2) Fix the L-shaped brackets to the device with screws.



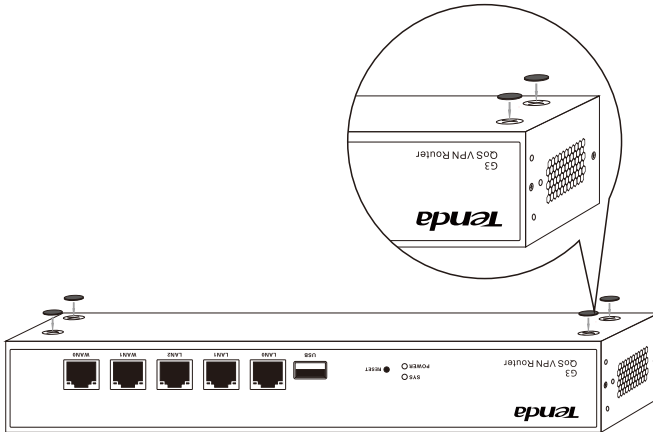
- 3) Prepare four screws that fix the device to the rack.



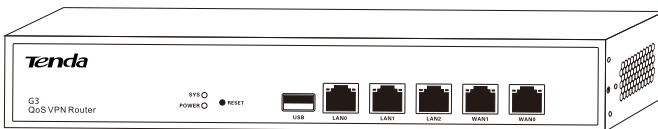
2.2.2 Desktop-mounting

Also, you can install the device on a desktop if no rack is available.

- 1) Place the device bottom-up on a stable and flat desktop.
- 2) Attach the four rubber footpad stickers to the corresponding four corners of the bottom.

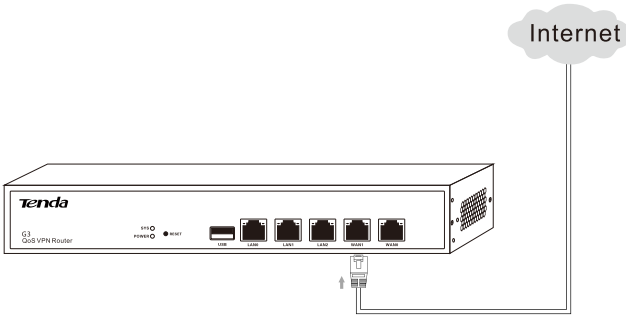


- 3) Correctly place the device upright on the desktop.

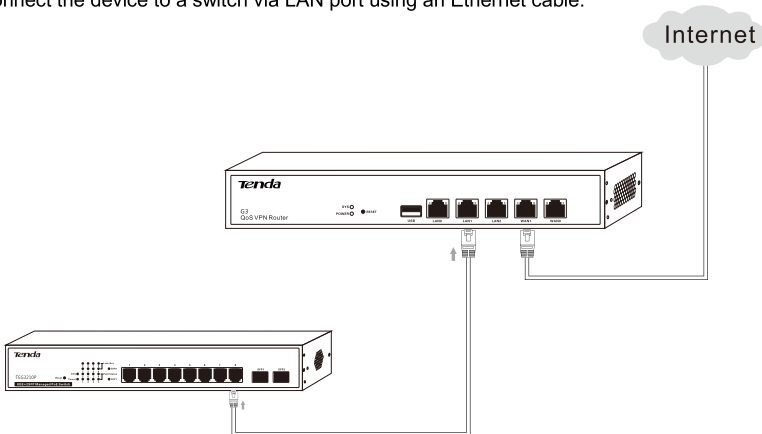


Chapter 3 Cable Connection

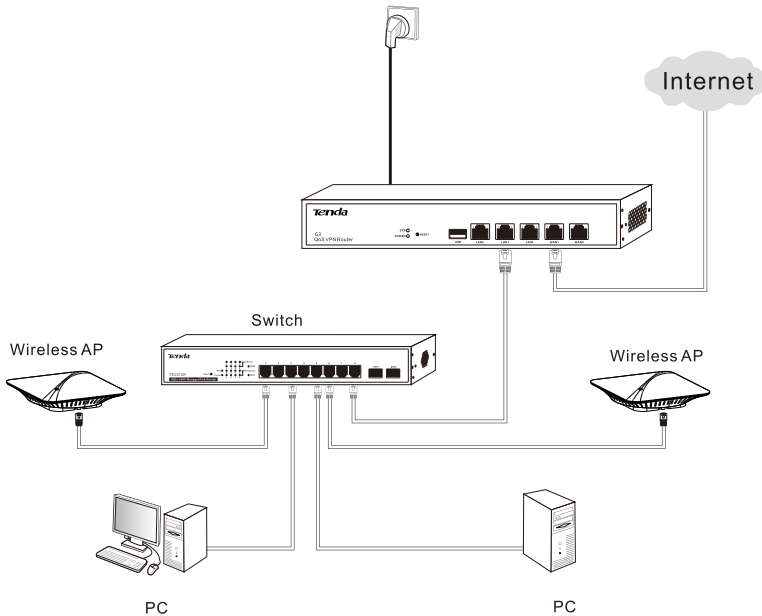
- 1) Plug the Internet access cable from your ISP to the WAN port on the device.



- 2) Connect the device to a switch via LAN port using an Ethernet cable.



- 3) Connect other devices, such as APs, Servers or PCs, to the switch via LAN ports.
- 4) Inspect your cabling, referring to the connection topology below. And connect the device to the power supply with the included power cord.

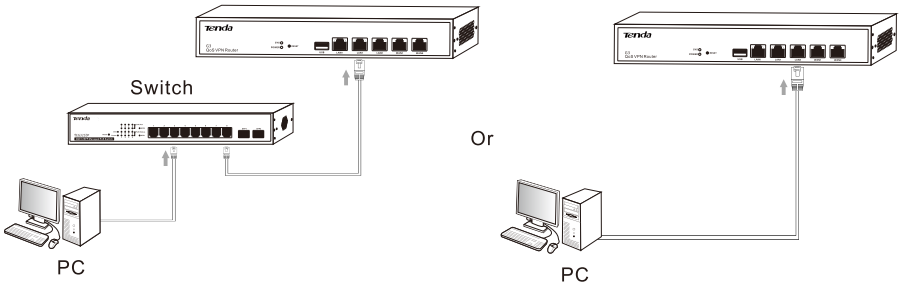


5) After the device is rebooted, it will initialize its default settings. Check LEDs status, which should be displayed successively as the following:

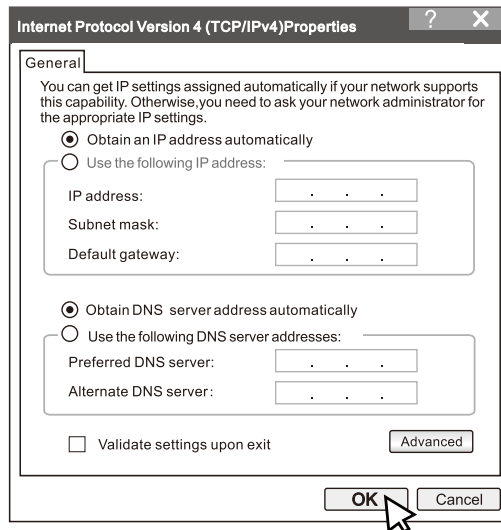
1. All LEDs (POWER, Link/Act and Speed LEDs) except "SYS" LED will light up and the system will start a self-test.
2. POWER LED remains solid; other LEDs turn off.
3. After initialization completes, the POWER LED remains solid, SYS blinks, and the Link/Act and Speed LEDs will display their working status respectively.

Chapter 4 Login

- 1) Connect your PC to a LAN port on the device or the connected switch.



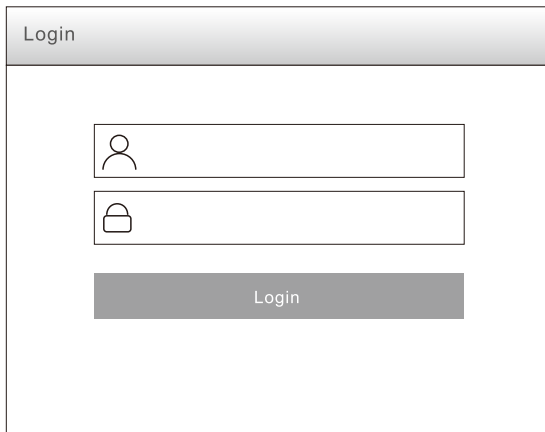
- 2) Set your PC as "Obtain an IP address automatically" and "Obtain DNS server address automatically".



- 3) Launch your Web browser; type **192.168.0.252** in the address bar and hit **Enter** on the keyboard.



4) This will direct you to the device login page, prompting you to enter the username (admin) and password (admin), and click **Login**.



5) You have entered the Web management (below) of the device. Now you can set up or modify your configuration settings as desired.

A screenshot of the Tenda web management interface. The page has an orange header with the "tenda" logo and a "Logout" link. A left sidebar contains a menu with items like "System Status", "Device Info", "Network Settings", "Manage AC", "Bandwidth Control", "Portal Authentication", "VPN Settings", "Advanced Settings", and "System Tools". The main content area is titled "System Status" and includes sections for "Interface Status" (showing LAN0, LAN1, LAN2, LAN3, and WAN0), "System Info" (showing Device Name G3V1.0, System Time 2015-08-17 14:33:38, Running time 5 hour 15 min, Firmware Version V1.0.0.3, CPU usage at 5%, and Memory usage at 96%), "LAN Info" (showing LAN IP 192.168.3.252, LAN MAC 00:B0:2C:0B:F7:E8, and Subnet Mask 255.255.255.0), and "WAN Info".

Appendix

1 FAQs

Q1: I cannot log in to the device configuration screen with 192.168.0.252 at the initial login. What should I do?

A1:

- ❶ Verify that all cables are connected correctly and well.
- ❷ Review the TCP/IP settings on your PC, verify it is 192.168.0.x ("x" can be any number between 2~254, excluding 252) and retry.
- ❸ Clear the Web browser cache or try another browser.
- ❹ Try another computer to access the configuration screen.
- ❺ Restore the device to factory defaults and retry.
- ❻ Confirm there are no devices in the same LAN whose IP is 192.168.0.252, and retry.

Q2: I forgot my login username and password. What should I do?

A2: Try the default settings first (Default LAN IP: **192.168.0.252**, Login username: **admin**; password: **admin**). If it does not work, restore the device to factory defaults and retry with the default settings.

Q3: How do I restore the device to factory defaults if I cannot access the device configuration screen?

A3: Power up the device and press RESET button on the front panel for about five seconds. In 1 minute, the device should successfully restore to its factory defaults.



Restoring factory defaults will delete all the configured settings. After that you need to reconfigure the device.

2 Technical Specifications

Item	Specification
User Capacity	100
CPU	ARM 800MHz processor
DDR3	256MB
FLASH	128MB
Max concurrent session	20000
Throughput (two-way)	100Mbps
Interfaces	<ul style="list-style-type: none"> • 5 10/100/1000Mbps auto-negotiating RJ45 ports. • 1 USB 3.0 (Reservation)
LEDs	<ul style="list-style-type: none"> • 1 POWER LED • 1 SYS LED • 5 Link/Act LEDs; • 5 Speed LEDs
Button	<ul style="list-style-type: none"> • 1 RESET button • 1 ON/OFF button
Operation/Storage temperature	-10°C~45°C / -40°C~70°C
Operation/Storage humidity	10%~90% RH (non-condensing) / 5%~90% RH (non-condensing)
AC input	100~240V AC, 50/60Hz
Power consumption	≤12W
Dimension	294mm*178mm*44mm

3 Regulatory Compliance Information

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

For Pluggable Equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

The Product is designed for IT Power Distribution System.

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.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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 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. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

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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