



Tenda TEG5312F L3 Managed Switch Installation Guide

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Tenda TEG5312F L3 Managed Switch



Package contents

- Switch x1

- Console cable x 1
- Footpad x4
- Screw (KM3*8 mm, head diameter: 6 mm) x 8
- Power cord x 1
- L-shaped bracket x 2
- Quick installation guide x 1

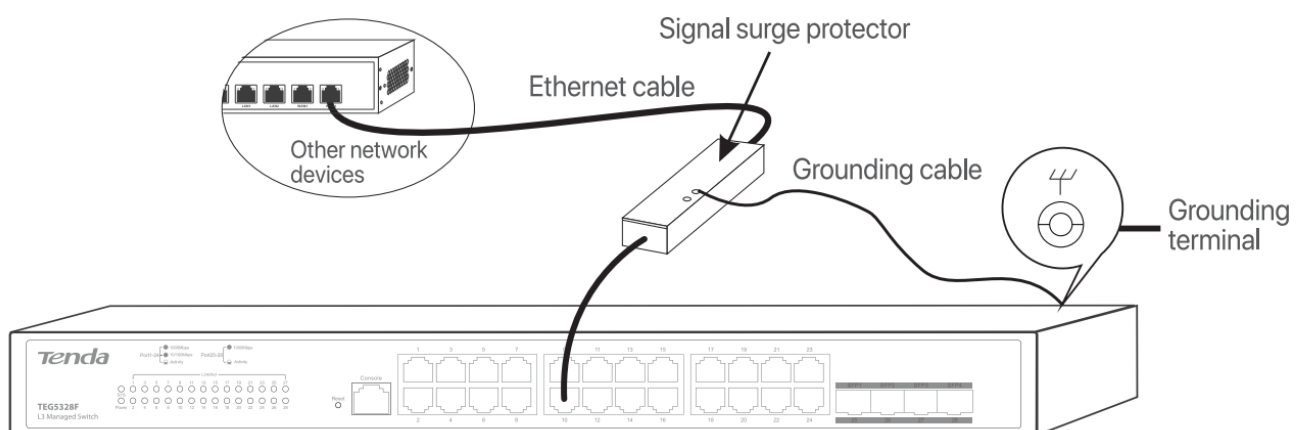
This guide instructs how to install, connect and log in to the device with the example of TEG5328F. For details, please download the user guide of the device.

Device installation

Safety precautions

Follow the notes below to avoid device damages or personal injuries caused by improper operations.

- Wear the ESD bracelet or gloves before installation and do NOT power on the switch before finishing installation.
- Use the included power cord to supply power to the switch.
- Make sure that the input voltage matches the value of the switch specified in this guide.
- Do NOT block any ventilation openings.
- Do NOT remove the housing of the switch.
- Keep the operating environment clean and regularly clean the switch.
- Disconnect the switch from the power supply before cleaning it. Do NOT scrub the switch with any liquid.
- Position the switch away from power line, electric lamp, or power system.
- Do NOT place any heavy item on top of the switch.
- If an outdoor cable is required, check whether the signal surge protector and AC surge arrester are connected to the switch.



Note: There is a void sticker covering one of the screws on the housing of the switch. Do NOT remove the sticker without permission of the local agent. Otherwise, you shall be responsible for any damage.

Preparing for installation

- Rack mounting: ESD bracelet or gloves, screwdriver, 4 screws (suitable for securing the switch to the rack)
- Wall mounting: ESD bracelet or gloves, marker, hammer drill, rubber hammer, 4 expansion bolts (M5*40 mm),

screwdriver, 4 screws (PA 5*25 mm, head diameter: 10 mm)

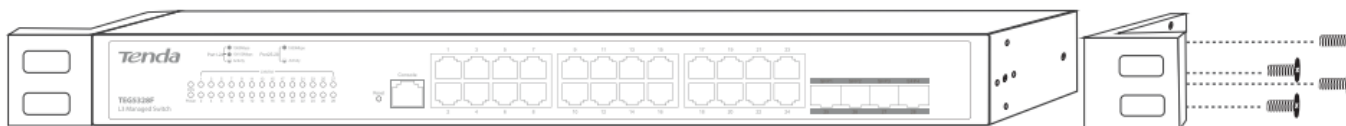
- Desktop mounting: ESD bracelet or gloves.

Installation

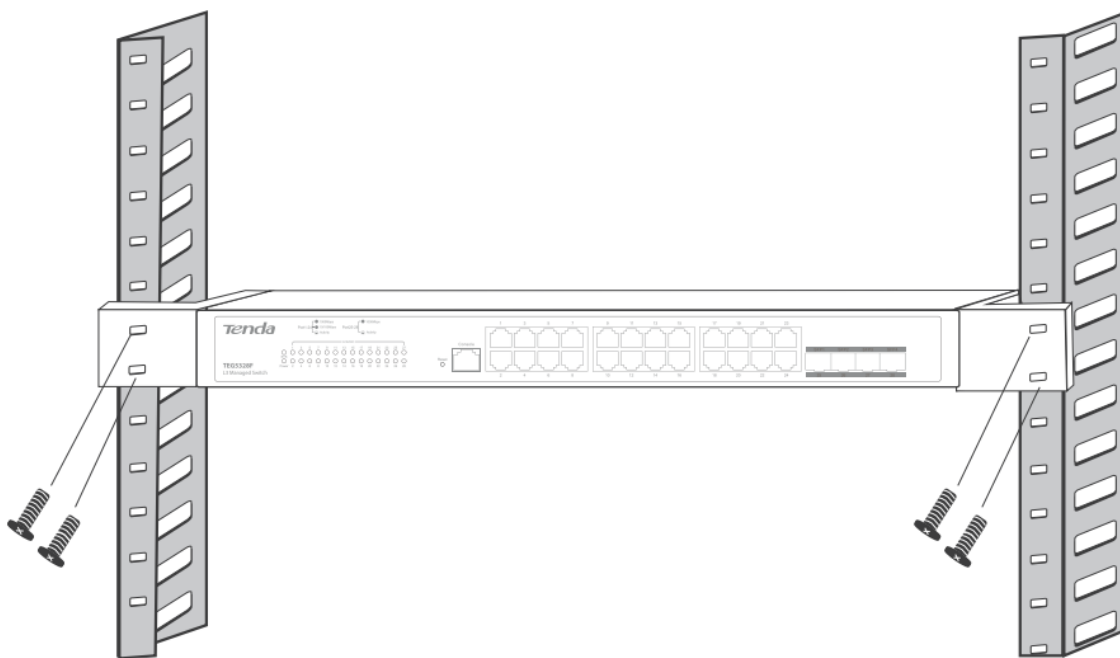
Mounting to a standard 19-inch rack

Step 1 Ensure that the rack is stable and level, and is properly grounded.

Step 2 Fix the 2 L-shaped brackets to both sides of the switch with the included screws.

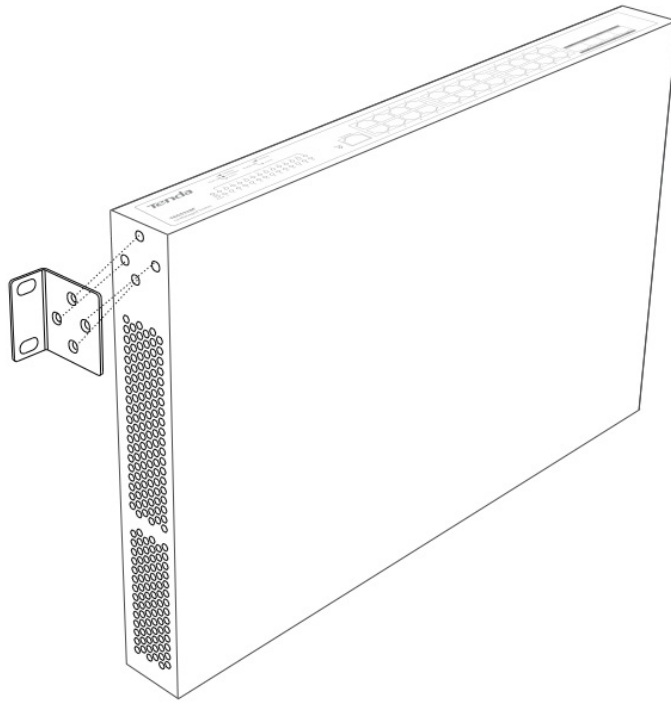


Step 3 Mount the switch at a proper height on the rack and fix the L-shaped brackets to the rack with screws (self-prepared). Ensure that the switch is stable on the rack.



Mounting to the wall

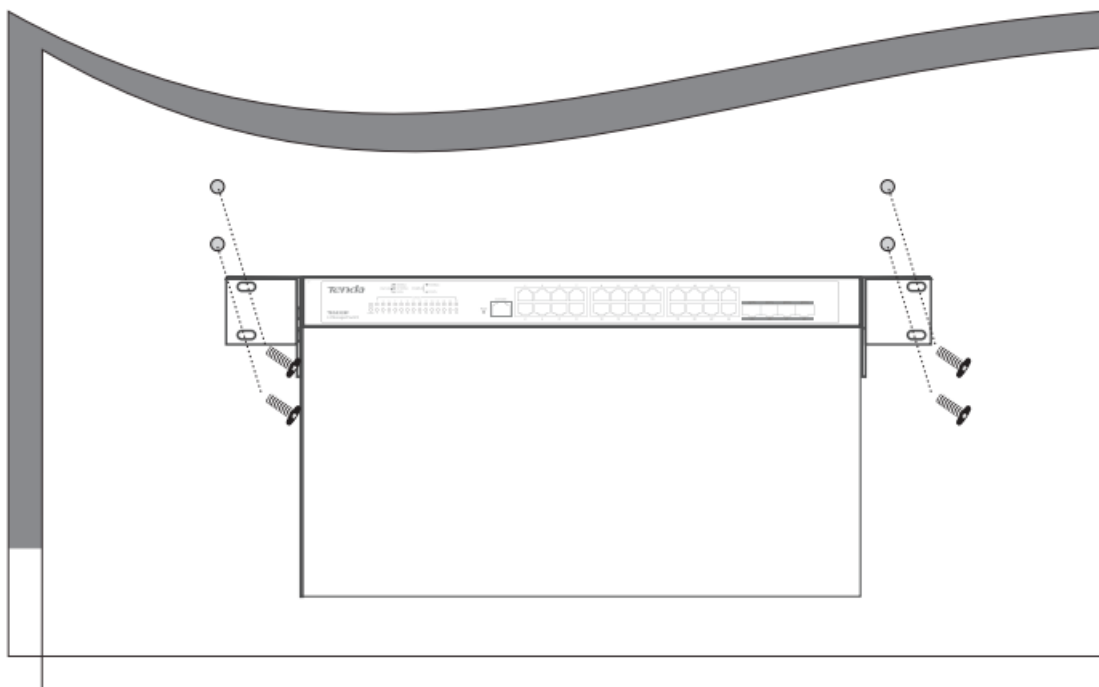
Step1 Fix the 2 L-shaped brackets (rotated by 90 degrees) to both sides of the switch with the included screws.



Step 2 Place the switch horizontally onto the wall with its RJ45 ports facing upward, and then mark the positions of the screw holes with the marker.

Step 3 Drill holes in the marked positions, and then hammer the expansion bolts into the holes.

Step 4 Secure the screws (self-prepared) passing through the L-brackets into the expansion bolts with a screwdriver. Ensure that the switch is installed firmly with its RJ45 ports facing upward.

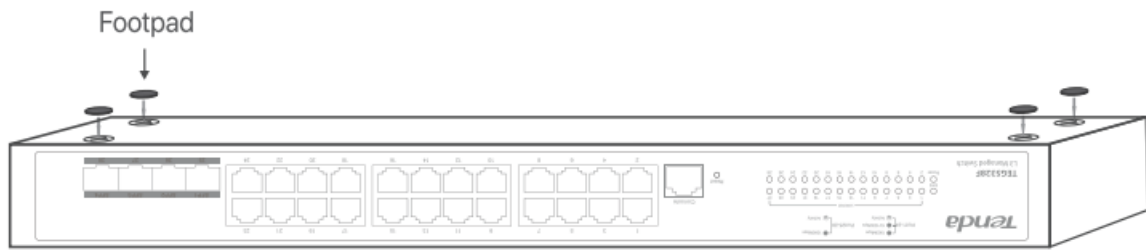


Note: Do NOT install the switch with its ventilation openings facing downward, otherwise there will be potential safety hazards.

- This switch can only be installed on a concrete or non-flammable wall.

Mounting on the desktop

Paste the four footpad stickers to the corresponding four recesses on the bottom of the switch. Then turn the switch upside down, and place it on a big enough, clean, stable and flat desktop.

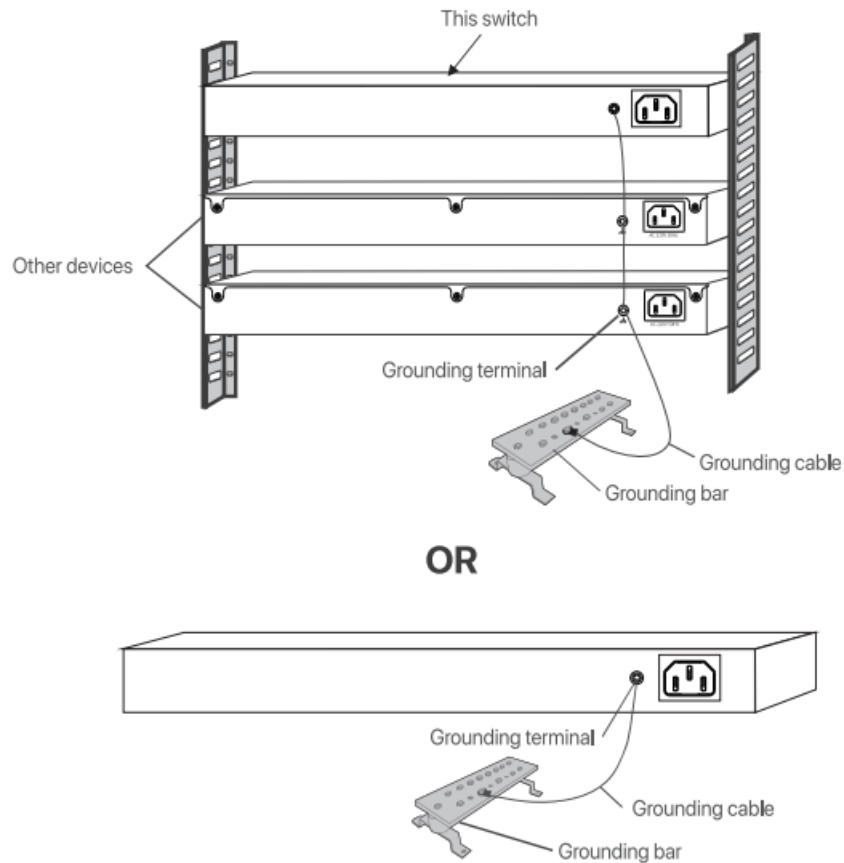


Grounding

Grounding is important for lightning protection, anti-interference, and personal safety.

Step1 Connect one end of the grounding cable to the grounding terminal of the switch.

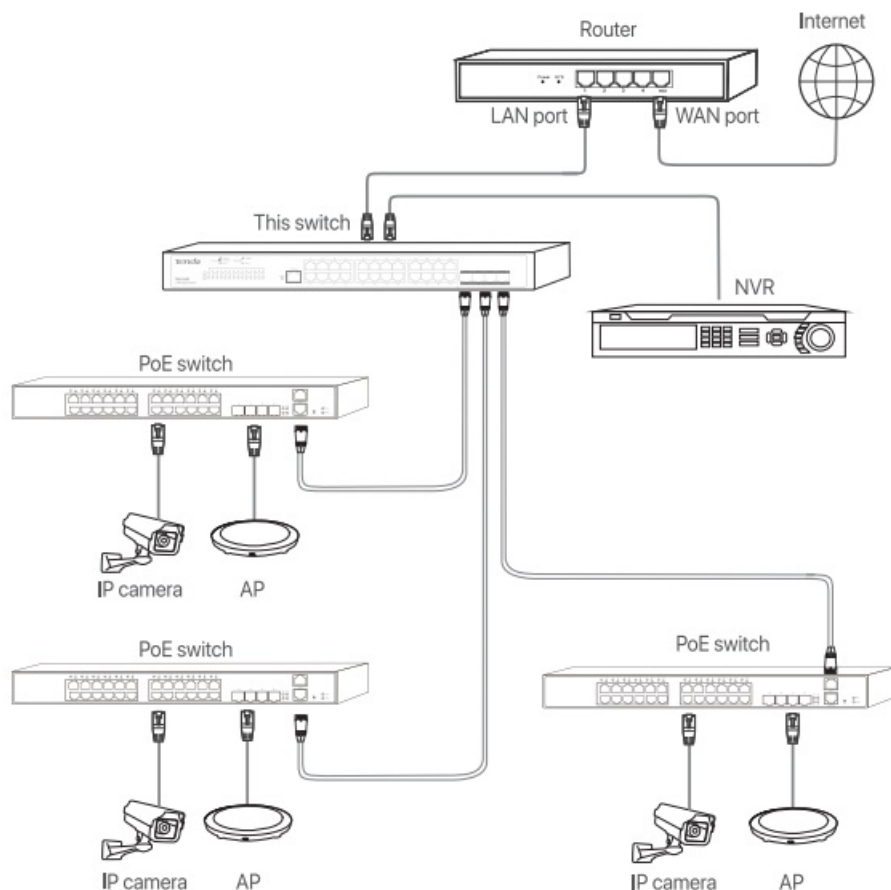
Step 2 Connect the other end of the grounding cable to another grounded device or to the binding post on the grounding bar.



Note: Connect the grounding cable to the grounding system in the equipment room. Do NOT connect it to a fire hose or lightning rod.

Physical connection

Refer to the following network topology to connect the switch to other network devices.



After connection, please check whether the switch is connected properly according to the following table.

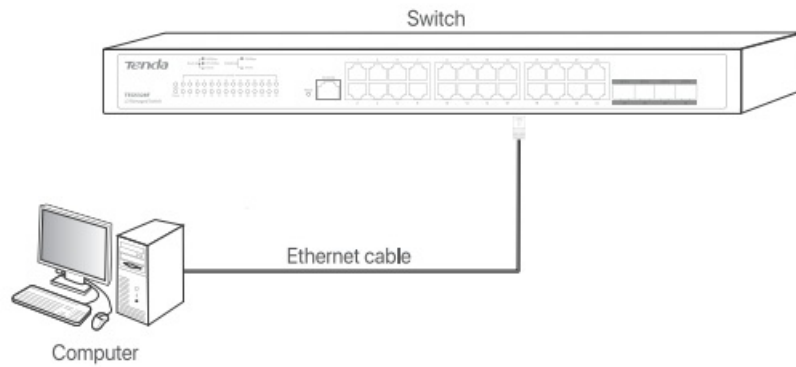
LED indicator	Description
SYS	Blinking: The system works properly. Solid on: The system is not working properly. Off: The system is starting up or not working properly.
Power	Solid on: The switch is powered on properly. Off: The switch is not powered on, or not powered on properly.
Link/Act	Solid on: The port is connected to a device, but no data is being transmitted over the port. Blinking: Data is being transmitted over the port. Off: The port is not connected or is not connected properly. Green light indicates that the negotiation rate of the port is 1000 Mbps, while orange light indicates a rate of 10 Mbps or 100 Mbps.

• Tips

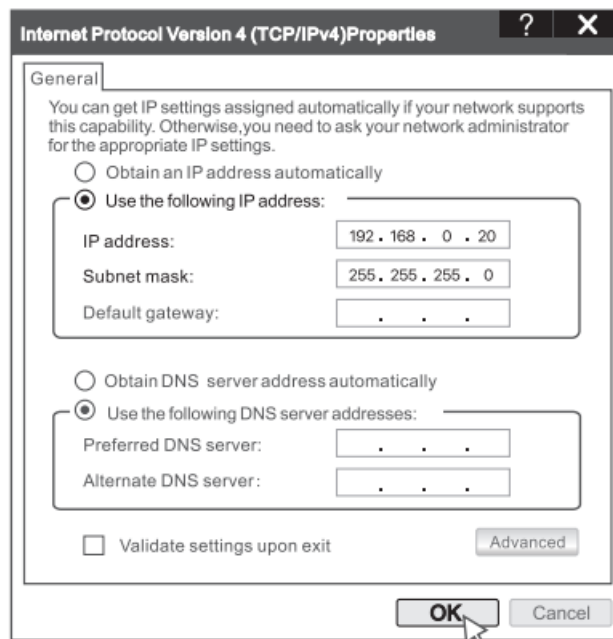
The switch supports auto MDI/MDIX, so both a straight cable or a crossover cable can be used to connect the switch to Ethernet devices.

Login

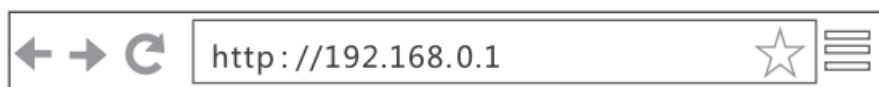
Step 1 Use an Ethernet cable to connect the computer to one of the ports 1-24 (1-10 for TEG5312F) of the switch.



Step 2 Set the IP address of the computer to the same network segment of the switch's IP address. The default IP address of the switch is 192.168.0.1. You can set the IP address of the computer to 192.168.0.X (X ranges from 2 to 254 and is not occupied) and the subnet mask to 255.255.255.0.



Step 3 Start a web browser (such as Chrome) on the computer, and enter the default IP address of the switch (default: 192.168.0.1) in the address bar, and press Enter on the keyboard.



Step 4 On the login page of the switch, enter the login user name and password (both are admin by default), and click Login.

The screenshot shows the Tenda switch login page. It features the Tenda logo at the top. Below the logo are two input fields: 'User Name' and 'Password'. There is a 'Forgot Password' link and a language dropdown menu set to 'English'. At the bottom is a 'Login' button.

Tips

If you fail to access the above page, please refer to question 1 in FAQ.

After successfully logging in to the web UI of the switch, you can configure the switch now.

FAQ

I cannot log in to the web UI of the switch. What should I do?

Try the following solutions:

- Check whether the switch is powered on properly: The Power LED indicator is solid on.
- Check whether the computer is connected to the switch properly.
- Check whether the IP address of Ethernet (or Local Area Connection) of the computer is set to 192.168.0.X (X ranges from 2 to 254 and is not occupied)
- Clear the cache of the web browser or try another web browser.
- Disable the firewall of the computer, or try another computer.
- Check whether only one device with the IP address 192.168.0.1 exists in the local network.
- If the problem persists, reset the switch and try again.

Reset method: When the SYS LED indicator is blinking, press and hold the Reset button for about 10 seconds, and then release it when all indicators are solid on. When the SYS LED indicator blinks again, the switch is restored to factory settings.

I forget the login user name and password when logging in to the web UI. What should I do?

Try entering the default login user name and password (both are admin). If failed still, reset the switch, and then use the default user name and password to log in.

How to deal with power system malfunctions?

Check the status of the Power LED indicator to confirm if the power system malfunctions. If the Power LED indicator lights solid on, the power system works properly. If not, please check as follows:

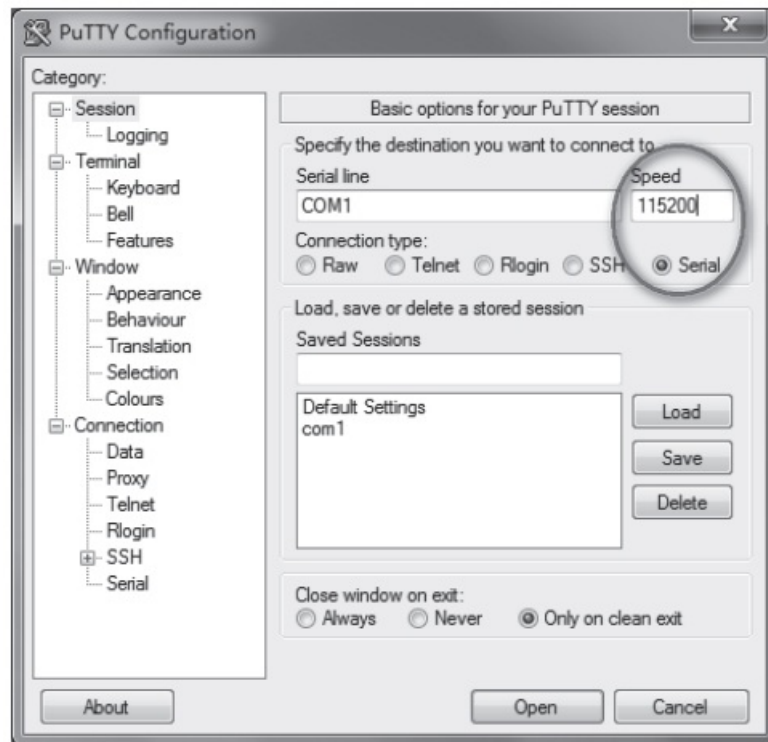
- Check whether the switch is properly connected to a power source using the included power cord.
- Check whether the input voltage matches the required value of the switch.

How do I connect the switch through the Console port?

Please operate as follows:

Step 1 Connect the computer and the Console port of the switch with the included console cable.

Step 2 Run the serial interface connection software (such as Putty) on the computer. Enter 115200 in the Speed box and select Serial as the Connection type. Then click Open.



Step 3 Press Enter twice and enter the user name and password of the switch (both are admin by default) on the page to enter the command-line interface of the switch.



Specifications

Model		TEG5312F	TEG5328F
Port	10/100/1000 Mbps RJ45 port	10	24
	1000 Mbps SFP port	2 independent SFP ports	4 independent SFP ports
	Console port	1; Baud rate: 115200	
Performance	Switching mode	Store-and-forward	
	MAC address table learning	Auto aging, auto learning	
	MAC address table	16 K	
Dimensions (L x W x H)		294 mm x 179.6 mm x 44 mm	440 mm x 178.8 mm x 44 mm
AC input		100 - 240V AC, 50/60Hz, 0.6A	100 - 240V AC, 50/60Hz, 0.7A
Lightning protection	RJ45 port	Common mode: 6 kV	
	Power supply	Common mode: 6 kV; Differential mode: 4 kV	
Operating environment		Temperature: 0°C - 40°C Humidity: (10% - 90%) RH, non-condensing	Temperature: 0°C - 45°C Humidity: (10% - 90%) RH, non-condensing
Storage environment		Temperature: -40°C - 70°C Humidity: (5% - 90%) RH, non-condensing	
Data transmission rate		Ethernet: 10 Mbps (half duplex)/20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex)/200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)	
Transmission media		Ethernet: CAT3 UTP/STP or better Fast Ethernet: CAT5 UTP/STP or better Gigabit Ethernet: CAT5e or CAT6 UTP/STP	
Standards		IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.1d, IEEE 802.1p, IEEE 802.1q, IEEE 802.1w, IEEE 802.1s	

Safety and statement

CE

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.

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

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.

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.

Caution!

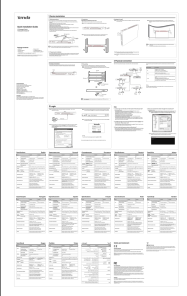
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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.

Documents / Resources

	Tenda TEG5312F L3 Managed Switch [pdf] Installation Guide TEG5312F L3 Managed Switch, TEG5312F, L3 Managed Switch, Managed Switch, Switch
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Manuals+.