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Tenda TEG205E

Tenda TEG205E 5-Port Managed Gigabit Switch User Manual

Model: TEG205E | Brand: Tenda

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Tenda TEG205E 5-Port Managed Gigabit Switch. The TEG205E is an Easy Smart Managed switch designed to provide high-speed network connectivity with advanced management features for both home and small office environments. Its fanless metal design ensures quiet and reliable operation.

The TEG205E offers 5 gigabit Ethernet ports, delivering 10x faster speeds than standard ports, ideal for seamless large file transfers and video streaming.



Figure 1: Tenda TEG205E 5-Port Managed Gigabit Switch

2. PRODUCT FEATURES

- **5 Gigabit Ethernet Ports:** Provides 10/100/1000Mbps auto-negotiating RJ45 ports for high-speed data transfer.
- **Easy Smart Management:** User-friendly web interface for effortless network configuration and management.
- **Real-Time Log Alerts:** Instant alerts for network abnormalities such as loops and unauthorized routers, enhancing

network security.

- **Versatile Scenarios Support:** Equipped with QVLAN, VLAN passthrough, traffic statistics, loop guard, MAC binding, and DHCP Snooping.
- **Enhanced Security:** Offers whitelist binding of MAC addresses, ports, and VLANs, along with port isolation for secure networking.
- **Network Standards Compliance:** Meets IEEE802.3, 802.3u, 802.3ab, 802.3x, 802.3z, 802.1p, and 802.1q standards.
- **Green Energy-Saving Design:** Features low power consumption, silent operation due to fanless design, and a manually controllable indicator light.
- **Fanless Metal Design:** Durable metal casing ensures quiet operation and efficient heat dissipation.
- **Multiple Mounting Options:** Supports both desktop placement and wall-mounting for flexible deployment.

Gigabit Smart Managed Switch

TEG205E



Gigabit Speed



Fanless Design



MAC Address Binding



DHCP Snooping



IGMP Snooping



VLAN



QoS



Stable Operation

Figure 2: Product Dimensions and Key Features

3. PACKAGE CONTENTS

Verify the contents of your package. If any item is missing or damaged, please contact your vendor.

- Tenda TEG205E 5-Port Managed Gigabit Switch
- Power Adapter (5V 600mA)
- Quick Installation Guide

4. PHYSICAL DESCRIPTION

4.1 Front Panel

The front panel of the TEG205E features five 10/100/1000Mbps RJ45 ports and LED indicators for power and port status.

- **Ports 1-5:** RJ45 ports for connecting network devices.
- **PWR/SYS LED:** Indicates power status and system activity.
- **Link/Act LEDs (per port):** Indicates a stable network link and data activity on the corresponding port.

4.2 Rear Panel

The rear panel includes the DC power input port and a grounding screw.

- **DC=5V:** Power input port for connecting the provided power adapter.
- **Grounding Screw:** For optional grounding connection.

Improve Transmission Efficiency

5*10/100/1000Mbps auto-negotiating RJ45 ports support wire-speed forwarding to ensure smooth transmission of large files and videos.



Figure 3: High Transmission Efficiency Overview

5. SETUP

5.1 Basic Connection

1. **Power On:** Connect the provided power adapter to the DC=5V port on the switch and plug the adapter into a power outlet. The PWR/SYS LED will illuminate.
2. **Connect Devices:** Use standard Ethernet cables to connect your network devices (e.g., computers, printers, routers, NAS) to any of the RJ45 ports (1-5) on the switch.
3. **Verify Connection:** Once a device is connected, the corresponding Link/Act LED for that port will light up, indicating a successful connection. It will blink when there is data activity.

5.2 Accessing the Web Management Interface

For advanced configurations such as VLAN, QoS, and MAC binding, you need to access the switch's web management

interface.

1. **Connect a PC:** Connect a computer directly to one of the switch's Ethernet ports.
2. **Obtain IP Address:** The switch typically obtains an IP address from your network's DHCP server. You can find the switch's IP address through your router's connected devices list or by using a network scanning tool. If no DHCP server is present, the switch may default to a specific IP address (refer to the Quick Installation Guide for default IP if applicable).
3. **Open Web Browser:** Open a web browser (e.g., Chrome, Firefox, Edge) and enter the switch's IP address in the address bar.
4. **Login:** Enter the default username and password (refer to the Quick Installation Guide or product documentation for default credentials).

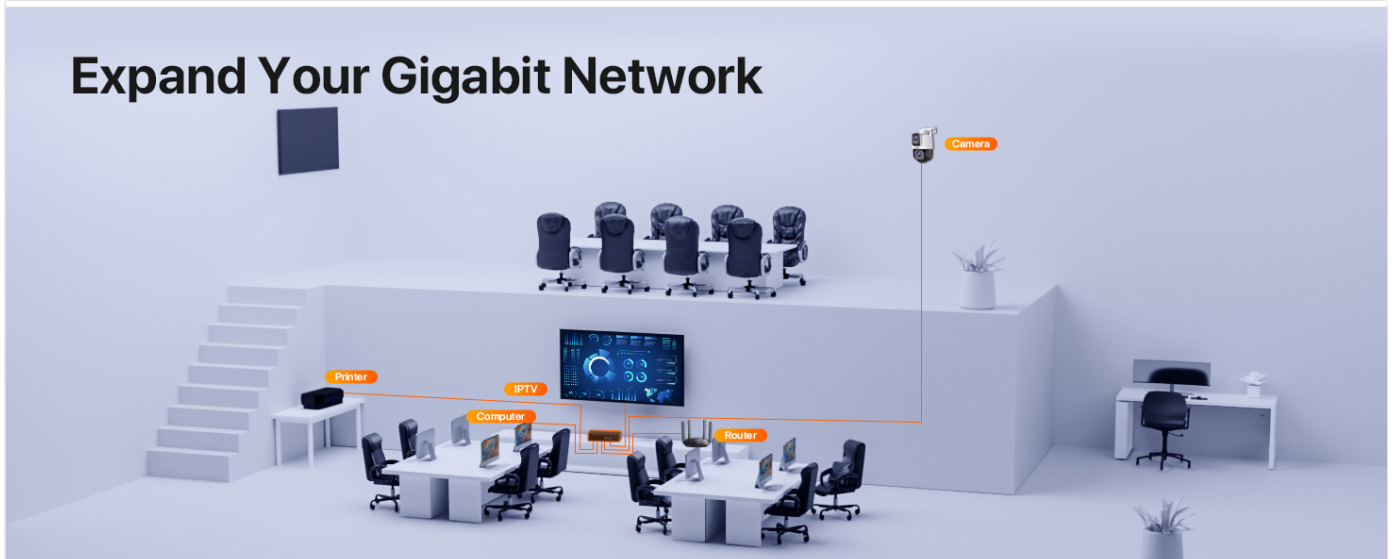


Figure 4: Expanding Your Gigabit Network

6. OPERATING INSTRUCTIONS

6.1 Basic Operation (Plug and Play)

For basic network expansion, the Tenda TEG205E operates as a plug-and-play device. Simply connect your network devices to the switch, and it will automatically detect and configure the optimal speed and duplex mode for each connection. No further configuration is required for unmanaged functionality.

6.2 Advanced Management

Once logged into the web management interface, you can configure various advanced features to optimize your network. The interface provides a concise and simple overview of device status and port summary.

Concise and Simple Management Interface

You can quickly configure VLAN, QoS priority ports, and enable loop protection without professional command line debugging.

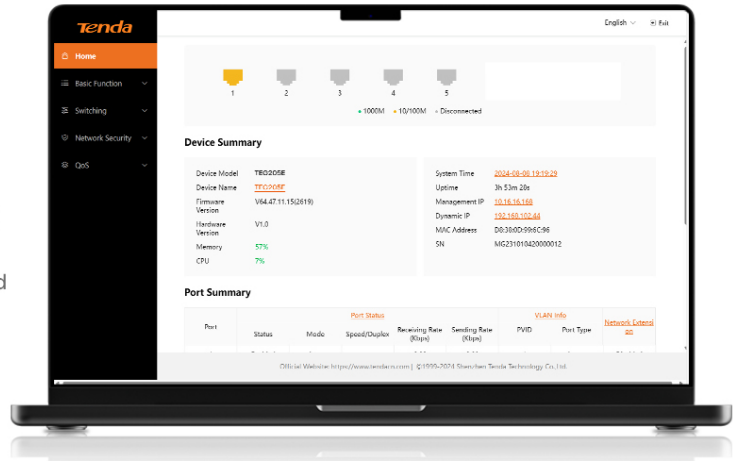


Figure 5: Concise and Simple Management Interface

7. ADVANCED FEATURES

7.1 VLAN (Virtual Local Area Network)

VLANs allow you to logically segment your network into smaller broadcast domains, improving network performance and security. The TEG205E supports QVLAN and VLAN passthrough. You can create multiple VLANs to isolate traffic, for example, separating guest networks from internal business networks.

Simple VLANS

Divide the network into different groups to improve network processing capacity and network security.

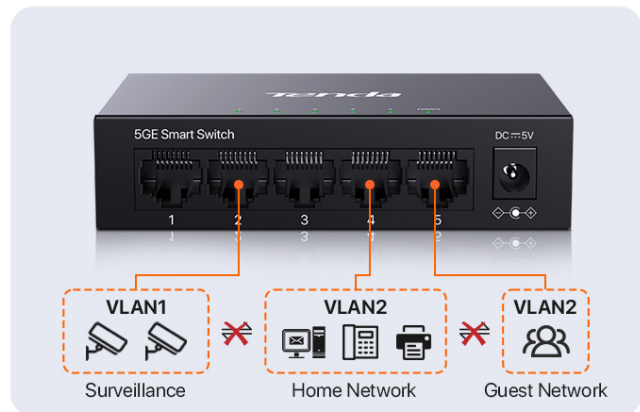


Figure 6: Simple VLAN Configuration

7.2 IGMP Snooping

IGMP (Internet Group Management Protocol) Snooping optimizes multimedia traffic transmission by preventing multicast streams from flooding all ports. This ensures efficient delivery of video services (e.g., IPTV) only to the ports that have requested them, conserving network bandwidth.

IGMP Snooping for Multicast Optimization

Ensure a better network experience by optimizing multimedia traffic transmission. This ensures smooth playback of video services while users are watching IPTV.



Figure 7: IGMP Snooping for Multicast Optimization

7.3 QoS (Quality of Service)

QoS allows you to prioritize network traffic, ensuring that critical applications (such as VoIP, video conferencing, or online gaming) receive the necessary bandwidth and low latency, even during periods of high network congestion.

Customize Port Priority

Set higher priority to applications that require higher network speed to ensure their traffic, such as video and games.

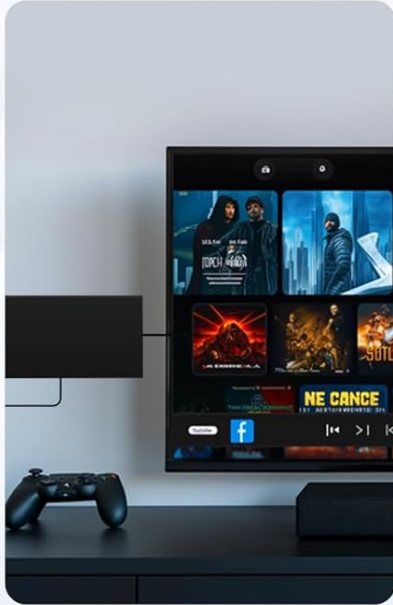


Figure 8: Customize Port Priority with QoS

7.4 Other Features

- **MAC Address Binding:** Binds specific MAC addresses to ports for enhanced security.
- **DHCP Snooping:** Prevents unauthorized DHCP servers from operating on the network.
- **Loop Guard:** Detects and prevents network loops that can cause broadcast storms and network outages.
- **Port Isolation:** Isolates traffic between specific ports to enhance security and prevent unauthorized communication.
- **Traffic Statistics:** Provides detailed information on network traffic passing through each port.

Advanced Features to Optimize Your Network



IGMP Snooping

This Feature optimizes multimedia traffic transmission.



QoS

This Feature ensures critical applications always have priority and the necessary bandwidth.



Simple VLANs

This Feature allows you to divide the network into different groups to improve network security.

Figure 9: Advanced Features Overview

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Tenda TEG205E switch.

- **Placement:** Place the switch in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and excessive dust.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation holes on the sides of the switch are not blocked to allow for proper airflow and heat dissipation.
- **Power Supply:** Use only the power adapter provided with the device.
- **Firmware Updates:** Periodically check the Tenda official website for firmware updates to ensure optimal performance and security.

Fanless Design, Quiet Operation

Fanless design ensures quiet operation in any environment.



Figure 10: Fanless Design for Quiet Operation

9. TROUBLESHOOTING

This section addresses common issues you might encounter with your Tenda TEG205E switch.

9.1 No Power Indicator

- Ensure the power adapter is securely connected to the switch and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power adapter for any visible damage.

9.2 No Link/Activity LED for a Connected Device

- Ensure the Ethernet cable is securely plugged into both the switch port and the device's network port.
- Try a different Ethernet cable to rule out cable issues.
- Verify the connected device's network adapter is enabled and functioning correctly.
- Try connecting the device to a different port on the switch.

9.3 Cannot Access Web Management Interface

- Ensure your computer is connected to the switch and has an IP address in the same subnet as the switch.
- Verify the switch's IP address. If it's set to DHCP, check your router's DHCP client list.
- Clear your browser's cache or try a different web browser.
- Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- If you have forgotten the login credentials, you may need to perform a factory reset (refer to the Quick Installation Guide for reset procedures).

10. SPECIFICATIONS

| Attribute | Value |
|-------------|---------|
| Model | TEG205E |
| Switch Type | Managed |

| Attribute | Value |
|--------------------------------|---|
| Number of Ports | 5 |
| Interface Type | RJ45 |
| Data Transfer Rate | 1024 Megabits Per Second (1Gbps per port) |
| Switching Capacity | 10Gbps |
| Product Dimensions (L x W x H) | 2.5"L x 3.9"W x 1"H (64mm x 100mm x 25mm) |
| Item Weight | 8.1 ounces |
| Case Material | Metal |
| Color | Black |
| Voltage | 100 Volts |
| Maximum Power Consumption | 2.5 Watts |
| Upper Temperature Rating | 70 Degrees Celsius |
| Compatible Devices | Desktop, Laptop, Printer |
| UPC | 885397276920 |

11. WARRANTY AND SUPPORT

Tenda provides an industry-leading 3-year manufacturer warranty for the TEG205E switch.

For technical assistance, you can contact the FREE lifetime 24/7 dedicated tech-support team.

- **Email Support:** support.us@tenda.cn
- **Phone Support:** Please refer to the official Tenda website or Quick Installation Guide for phone numbers specific to your region.

For more information and resources, visit the official Tenda website: www.tenda.com.cn