

TP-Link ES206GP

TP-Link Omada 6-Port Gigabit Easy Managed Switch with 4-Port PoE+

Model: ES206GP

1. INTRODUCTION

The TP-Link Omada 6-Port Gigabit Easy Managed Switch with 4-Port PoE+ (Model ES206GP) is designed to provide high-speed network connectivity and flexible power delivery for various network devices. This switch features 6 Gigabit RJ45 ports, with 4 ports supporting 802.3af/at PoE+ standards, offering a total power budget of 65W. It integrates seamlessly into the Omada SDN (Software Defined Networking) platform for centralized cloud management via a web interface or the Omada app. Key features include automatic loop prevention, VLAN support, and IGMP snooping, making it suitable for expanding home or small business networks.

2. SAFETY INFORMATION

- Ensure the power supply voltage is within the specified range (53.5V).
- Do not expose the device to water or excessive humidity.
- Avoid placing the device in direct sunlight or near heat sources.
- Operate the device within the specified temperature range (up to 40 degrees Celsius).
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel.
- Use only the power adapter provided with the device.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link Omada 6-Port Gigabit Easy Managed Switch (ES206GP)
- Power Adapter
- Quick Installation Guide

4. PRODUCT OVERVIEW

4.1 Front Panel



The front panel of the ES206GP switch features six RJ45 Gigabit Ethernet ports. Ports 1-4 are PoE+ enabled, providing power and data to compatible devices. The panel also includes LED indicators for Power, PoE Max, and individual port status (Link/Act and PoE status). A recessed Reset button is available for restoring factory defaults.

- **Power LED:** Indicates the power status of the switch.
- **PoE Max LED:** Indicates if the total PoE power budget is nearing its limit.
- **RJ45 Ports (1-6):** Gigabit Ethernet ports for network connections. Ports 1-4 support PoE+.
- **Port LEDs:** Indicate link/activity and PoE status for each port.
- **Reset Button:** Press and hold for several seconds to restore factory default settings.

4.2 Rear Panel



The rear panel includes the DC power input jack and a grounding screw. The power input is rated for 53.5V at 1.31A.

- **Power Input:** Connect the provided power adapter here.
- **Grounding Screw:** For optional grounding to protect against electrical surges.

4.3 Bottom Panel



The bottom panel features mounting slots, allowing the switch to be securely mounted on a wall or other surfaces.

5. SETUP

5.1 Hardware Installation

1. **Placement:** Place the switch on a stable, flat surface or mount it to a wall using the slots on the bottom panel. Ensure adequate ventilation around the device.
2. **Power Connection:** Connect the provided power adapter to the DC power input on the rear panel of the switch, then plug the adapter into a power outlet. The Power LED on the front panel should illuminate.

5.2 Network Connection

1. **Connect Network Devices:** Use standard Ethernet cables to connect your network devices (e.g., computers, servers, routers) to any of the RJ45 ports (1-6) on the front panel.
2. **Connect PoE-Powered Devices:** For devices requiring power over Ethernet (e.g., IP cameras, wireless access points, VoIP phones), connect them to ports 1-4. The switch will automatically detect and provide power to compliant PoE devices.

5.3 Initial Configuration

The ES206GP is an easy managed switch, supporting plug-and-play functionality for basic network connectivity. For advanced features and centralized management, it integrates with the Omada SDN platform.

- **Plug-and-Play:** For basic network extension, simply connect your devices. The switch will automatically handle data forwarding.
- **Omada SDN Integration:** To utilize advanced management features, connect the switch to an Omada Controller (hardware or software). The controller will discover and allow you to adopt the switch for centralized configuration via the Omada app or web interface. Refer to the Omada Controller's documentation for detailed adoption and configuration steps.

6. OPERATING

6.1 Basic Operation

- **Data Transfer:** Once connected, the switch automatically forwards data packets between connected devices at Gigabit speeds.
- **PoE Functionality:** Ports 1-4 automatically detect and supply power to 802.3af/at compliant PoE devices. The PoE Max LED indicates the overall power consumption status.

6.2 Managed Features

When integrated with an Omada Controller, the ES206GP supports various managed features:

- **VLAN (Virtual Local Area Network):** Segment your network into smaller, isolated broadcast domains to improve security and performance.
- **IGMP Snooping:** Optimizes multicast traffic delivery, preventing unnecessary flooding of multicast packets to all ports.
- **Automatic Loop Prevention:** Detects and prevents network loops that can cause broadcast storms and network instability.

6.3 Cloud Management

The Omada SDN platform allows for centralized management of your network devices, including the ES206GP switch, from anywhere via the cloud.

- **Omada App:** Download the Omada app on your mobile device for convenient management and monitoring.
- **Web Interface:** Access the Omada Controller's web interface from a browser for comprehensive configuration and monitoring.

7. MAINTENANCE

7.1 Firmware Updates

Regularly check for and install firmware updates through your Omada Controller to ensure optimal performance, security, and access to new features. The Omada Controller typically manages firmware updates for adopted devices.

7.2 Cleaning

Clean the device periodically with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure the ventilation holes are free from dust and obstructions.

7.3 Environmental Considerations

Maintain the operating environment within the specified temperature and humidity ranges to prevent damage and ensure stable operation.

8. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to the switch and a working power outlet. Check the Power LED.

- **No Link/Activity:** Verify that Ethernet cables are properly connected to both the switch and the network device. Check the corresponding port LED. Try a different cable or port.
- **PoE Device Not Powering On:** Ensure the device is PoE compliant (802.3af/at). Check the PoE Max LED to ensure the total power budget is not exceeded. Try connecting to a different PoE port.
- **Cannot Access Omada Controller:** Ensure the switch is properly connected to the network where the Omada Controller resides. Verify network connectivity between the switch and the controller.
- **Network Performance Issues:** Check for network loops (the switch has automatic loop prevention, but external loops can still occur). Verify cable quality and length. Consider checking for firmware updates.
- **Factory Reset:** If issues persist or you forget configuration settings, press and hold the Reset button on the front panel for approximately 5-10 seconds until the LEDs flash, then release. This will restore the switch to its factory default settings.

9. SPECIFICATIONS

Feature	Description
Model	ES206GP
Ports	6x 10/100/1000Mbps RJ45 Ports
PoE+ Ports	4x 802.3af/at-compliant PoE+ Ports (Ports 1-4)
PoE Power Budget	65W total, up to 30W per port
Data Transfer Rate	6 Gigabits Per Second
Switch Type	Managed PoE
Dimensions (L x W x H)	4"L x 6.2"W x 1"H (approx.)
Operating Temperature	Up to 40 Degrees Celsius
Voltage	53.5 Volts
Management	Omada SDN (Cloud-based, Web UI, App)
Features	VLAN, IGMP Snooping, Automatic Loop Prevention

10. WARRANTY INFORMATION

This TP-Link Omada ES206GP switch comes with a **5-Year Manufacturer Warranty**. For detailed warranty terms and conditions, please refer to the official TP-Link website or contact TP-Link customer support.

11. SUPPORT

For technical support, troubleshooting assistance, or to download the latest firmware and documentation, please visit the official TP-Link support website:

<https://www.tp-link.com/support>

You can also contact TP-Link customer service directly for further assistance.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question