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› [NETGEAR GS305EPP 5-Port PoE+ Gigabit Ethernet Smart Managed Plus Switch User Manual](#)

NETGEAR GS305EPP-100NAS

NETGEAR GS305EPP 5-Port PoE+ Gigabit Ethernet Smart Managed Plus Switch User Manual

Model: GS305EPP-100NAS

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NETGEAR GS305EPP 5-Port PoE+ Gigabit Ethernet Smart Managed Plus Switch. The GS305EPP is designed to provide reliable network connectivity and Power over Ethernet (PoE+) capabilities for various applications, including VoIP phones, IP cameras, and wireless access points. It features 4 PoE+ ports with a total power budget of 120W and includes essential network management features to optimize network performance.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- NETGEAR GS305EPP 5-Port High-power PoE+ Gigabit Ethernet Smart Managed Plus Switch
- Power Adapter (2V, 0.5A)
- Installation Guide

3. PHYSICAL FEATURES

The NETGEAR GS305EPP switch is equipped with various ports and LED indicators to monitor its status and activity.



Figure 1: Front view of the NETGEAR GS305EPP switch. It displays five Gigabit Ethernet ports, with ports 1-4 supporting PoE+. LED indicators for Power, PoE Max, and individual port status are visible.

3.1. Front Panel

- **Power LED:** Indicates the power status of the switch.
- **PoE Max LED:** Illuminates when the total PoE power consumption is approaching its maximum limit.
- **Ethernet Ports (1-5):** Five Gigabit Ethernet ports for network connections.
- **PoE+ Ports (1-4):** Ports 1 through 4 support Power over Ethernet Plus (PoE+) with a total budget of 120W. Each port can deliver up to 30 watts.
- **Link/Activity LEDs (per port):**
 - Green: 1000 Mbps connection.
 - Yellow: 10/100 Mbps connection.
 - Blinking: Network activity.
- **PoE Status LEDs (per PoE port):**
 - Green: PoE powered device connected.
 - Yellow: PoE fault detected.
- **Reset Button:** Used to restore factory default settings.

3.2. Rear Panel

- **Power Input:** Connector for the external power adapter.
- **Kensington Lock Slot:** For physical security.

4. SETUP AND INSTALLATION

Follow these steps to set up your NETGEAR GS305EPP switch.

4.1. Placement

The switch supports both desktop and wall-mount placement. Ensure adequate ventilation around the device.

- **Desktop Placement:** Place the switch on a flat, stable surface.
- **Wall Mount:** Use the included hardware to securely mount the switch to a wall.

4.2. Power Connection

1. Connect the power adapter to the power input on the rear panel of the switch.

2. Plug the power adapter into an electrical outlet. The Power LED on the front panel will illuminate.

4.3. Network Connection

1. Connect your network devices (e.g., router, computers, servers) to any of the 5 Gigabit Ethernet ports using standard Ethernet cables.
2. For PoE-powered devices (e.g., IP cameras, VoIP phones, wireless access points), connect them to ports 1-4. The switch will automatically detect and provide power to compliant devices.

4.4. Initial Configuration (Smart Managed Essentials Software)

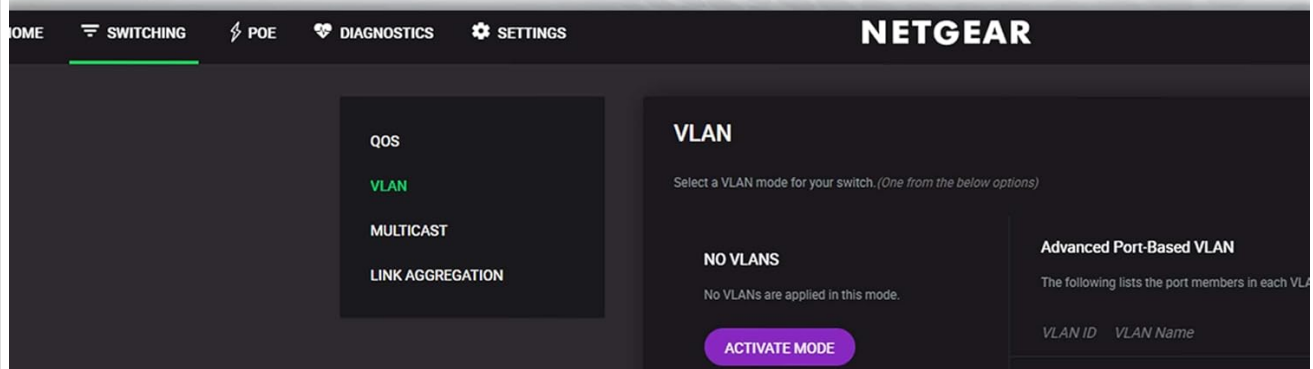
The GS305EPP is an Easy Smart Managed switch, offering basic management capabilities through a web-based interface. Refer to the included Installation Guide for initial access details.

- Connect a computer to the switch.
- Use the NETGEAR Smart Control Center utility or access the switch's default IP address via a web browser to log in.
- It is highly recommended to update the switch firmware to the latest version immediately after initial setup for optimal performance and security.

5. OPERATING THE SWITCH

The Easy Smart Managed Essentials software provides an intuitive interface for configuring and monitoring your network.

Easy Smart Managed Switches Software Configuration & Control



- Basic management with intuitive GUI
- VLAN Control - Configure security and performance across multiple virtual networks to reduce cost and management
- QoS - Determine traffic priority between audio, video, and file transfers
- Priority setting per port for VoIP, rate limiting, and VLANs

Figure 2: Screenshot of the NETGEAR Easy Smart Managed Switches software interface, showing options for QoS, VLAN, Multicast, and Link Aggregation settings.

5.1. Basic Network Management

The web-based GUI allows you to configure various network settings:

- **VLAN Control:** Configure Virtual Local Area Networks to segment your network, enhance security, and manage traffic efficiently.
- **Quality of Service (QoS):** Prioritize network traffic (e.g., for VoIP or video streaming) to ensure critical applications receive sufficient bandwidth.
- **Link Aggregation:** Combine multiple network connections to increase bandwidth and provide redundancy.

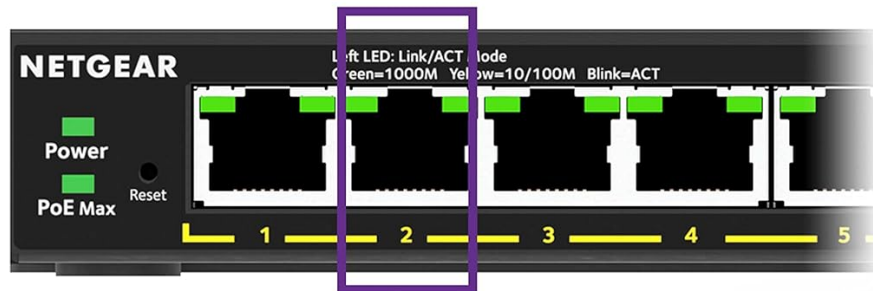
5.2. Power over Ethernet Plus (PoE+)

Ports 1-4 provide PoE+ functionality, allowing you to power compatible devices directly through the Ethernet cable.

Complete Control of each PoE Port



WATTS



- Allocate power level per port within total PoE budget
- Power cycle individual PoE ports
- Maintain uninterrupted power during switch soft reboot and firmware updates

Figure 3: Screenshot of the PoE port control interface, illustrating how to allocate power levels per port within the total PoE budget.

- **Power Allocation:** Allocate specific power levels per port within the total 120W PoE budget.
- **Power Cycling:** Individually power cycle PoE ports for connected devices.
- **Uninterrupted Power:** The switch is designed to maintain uninterrupted power to PoE devices during soft reboots and firmware updates.

Ensure Adequate Power for Today & Tomorrow










Powered Devices	PoE Up to 15W per port	PoE+ Up to 30W per port	PoE++ Up to 60W per port
WIFI ACCESS POINT 	✓	✓	✓
BASIC CAMERAS 	✓	✓	✓
VOIP PHONE 	✓	✓	✓
WIFI 6 (AX) ACCESS POINT 		✓	✓
HD SECURITY 		✓	✓
VIDEO PHONE 		✓	✓
DIGITAL SIGNAGE 			✓
POINT-OF-SALE SYSTEM 			✓
SMART BUILDING LIGHTING 			✓

Figure 4: Compatibility table for PoE, PoE+, and PoE++ power standards, indicating typical power delivery per port for various device types.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your switch.

- **Firmware Updates:** Periodically check the NETGEAR support website for the latest firmware updates. Applying updates can improve performance, add features, and address security vulnerabilities.
- **Cleaning:** Keep the switch clean and free from dust. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.

7. TROUBLESHOOTING

If you encounter issues with your switch, refer to the following common troubleshooting steps:

- **No Power:** Check the power adapter connection to the switch and the electrical outlet. Ensure the Power LED

is illuminated.

- **No Link/Activity:** Verify that Ethernet cables are securely connected to both the switch and the network device. Check the Link/Activity LED for the specific port. Try a different cable or port.
- **PoE Device Not Powering On:** Ensure the device is PoE/PoE+ compatible and connected to one of ports 1-4. Check the PoE Status LED for the port. Verify the total PoE budget is not exceeded.
- **Accessing Web Interface:** Ensure your computer is on the same network segment as the switch. Try resetting the switch to factory defaults if you cannot access the interface (refer to the Reset Button description).
- **Slow Network Performance:** Check for excessive network traffic or potential cable issues. Consider configuring QoS settings to prioritize critical traffic.

8. SPECIFICATIONS

Feature	Detail
Model Number	GS305EPP-100NAS
Number of Ports	5 Gigabit Ethernet ports
PoE+ Ports	4 (Ports 1-4)
Total PoE Power Budget	120W
Data Transfer Rate	10/100/1000 Mbps (Gigabit)
Interface Type	PoE
Dimensions (H x W x D)	10.4 x 6.8 x 3.5 inches
Item Weight	14.1 ounces (0.88 Pounds)
Case Material	Plastic
Color	Black
Voltage	2 Volts (DC)
Operating Temperature	Up to 40°C
Energy Efficiency	IEEE802.3az compliant
Operation	Silent (fanless design)

9. WARRANTY INFORMATION

The NETGEAR GS305EPP switch comes with an industry-leading 3-year limited hardware warranty. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the official NETGEAR website.

10. TECHNICAL SUPPORT AND RESOURCES

For further assistance, technical support, or to download the latest documentation and firmware, please visit the official NETGEAR support website.

- **Online Support:** www.netgear.com/support

- **User Manual (PDF):** A detailed user manual in PDF format is available for download [here](#).

