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› [NETGEAR 8 Port PoE Gigabit Ethernet Easy Smart Managed Essentials Switch \(GS308EP\) User Manual](#)

NETGEAR GS308EP-100NAS

NETGEAR 8 Port PoE Gigabit Ethernet Easy Smart Managed Essentials Switch (GS308EP) User Manual

Model: GS308EP-100NAS | Brand: NETGEAR

1. INTRODUCTION

The NETGEAR GS308EP PoE+ Gigabit Ethernet Smart Managed Plus Switch is designed to provide robust network connectivity and power delivery for various applications. Featuring 8 ports with PoE+ capabilities and a total power budget of 62W, it can efficiently power devices such as VoIP phones, IP cameras for surveillance, and wireless access points without the need for separate power cables. This switch also incorporates basic and advanced network management features to optimize business network performance.

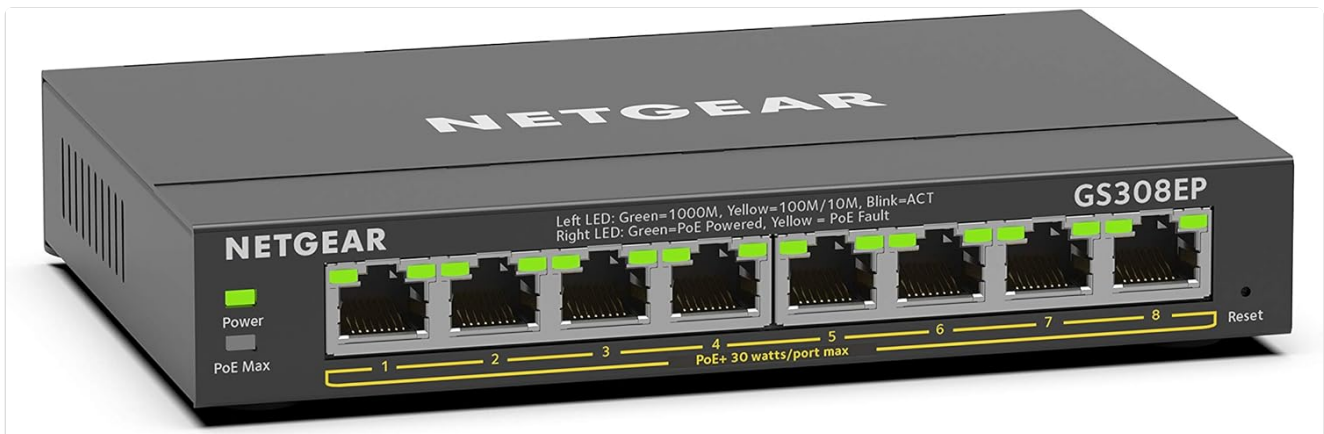


Figure 1: Front view of the NETGEAR GS308EP switch, showing 8 Gigabit Ethernet ports and status LEDs.

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Video 1: Product Overview of the NETGEAR GS308EP switch, highlighting its features and design.

2. KEY FEATURES

- 8 Gigabit Ethernet ports for high-speed wired connections.
- 8 PoE+ ports with a 62W total power budget, capable of powering various PoE-compatible devices.
- Easy Smart Managed Essentials software with an intuitive web interface for network configuration, security, and monitoring.

- Flexible placement options: supports both desktop and wall mount installations.
- Energy efficient design, compliant with IEEE802.3az standards.
- Silent operation, making it suitable for noise-sensitive environments.

NETGEAR Switch Management Levels

Key Features	Easy Smart Managed	Smart + Insight Remote Managed
MANAGEMENT LAYER	L2	L2/L2+/L3 Lite
NETWORK CONTROL Basic VLAN, QoS, IGMP, Link Aggregation	✓	✓
NETWORK SECURITY Storm Control, Auto-DoS	✓	✓
ADVANCED VLAN & QoS Such as MAC, Protocol, Voice, Auto-Voice, Auto-Video LAN		✓
ADVANCED SECURITY		✓
L2+ STATIC ROUTING, IPV6 SUPPORT		✓
REMOTE MONITORING & MANAGEMENT THROUGH INSIGHT APP OR CLOUD PORTAL		✓

Figure 2: Overview of NETGEAR Switch Management Levels, detailing features available with Easy Smart Managed switches.

3. SETUP AND INSTALLATION

3.1 Package Contents

Verify that your package contains the following items:

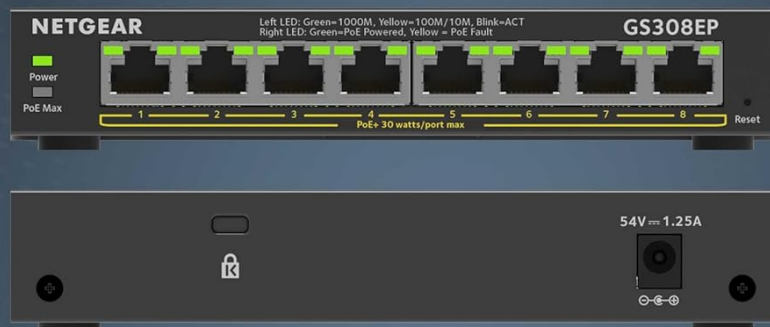
- NETGEAR 8-port Gigabit Ethernet PoE+ Smart Managed Plus Switch (GS308EP)
- 2V, 0.5A power adapter
- Installation guide

3.2 Connecting the Switch

To set up your GS308EP switch:

1. Connect the provided power adapter to the switch's power input port and then to a power outlet.
2. Connect your network devices (e.g., computers, IP cameras, wireless access points) to the Gigabit Ethernet ports on the front of the switch using standard Ethernet cables. For PoE-powered devices, simply connect them to any of the 8 PoE+ ports.
3. Ensure the Power LED on the switch illuminates green, indicating proper power supply.

8 Port Gigabit Easy Smart Managed Essentials Switch with PoE+ [GS308EP]



- 8 x 1G Ethernet Ports
- 8 x PoE+ Ports (62W Total Budget)
- Silent Operation
- Desktop or Wall Mount (hardware included)
- H x W x D: 1.1 x 6.2 x 4.0 inches

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Figure 3: Rear view of the GS308EP switch, illustrating the power input and keyhole slots for wall mounting.

3.3 Placement Options

The GS308EP switch offers versatile placement options:

- **Desktop Placement:** Place the switch on a flat, stable surface. Ensure adequate ventilation around the device.
- **Wall Mount:** Utilize the integrated keyhole slots on the bottom of the switch to securely mount it to a wall. Mounting hardware is typically included.

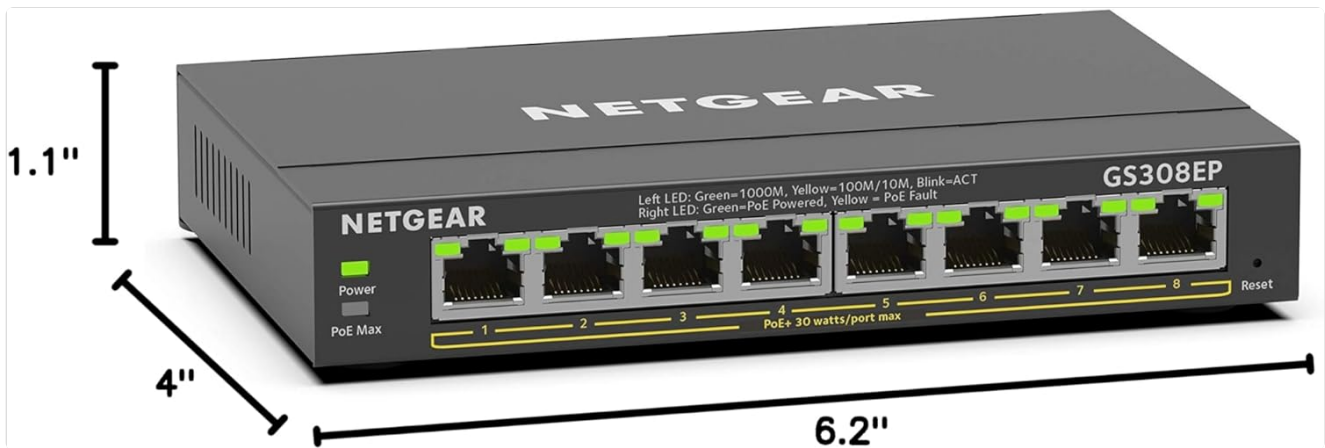


Figure 4: Physical dimensions of the NETGEAR GS308EP switch (1.1"H x 6.2"W x 4.0"D).

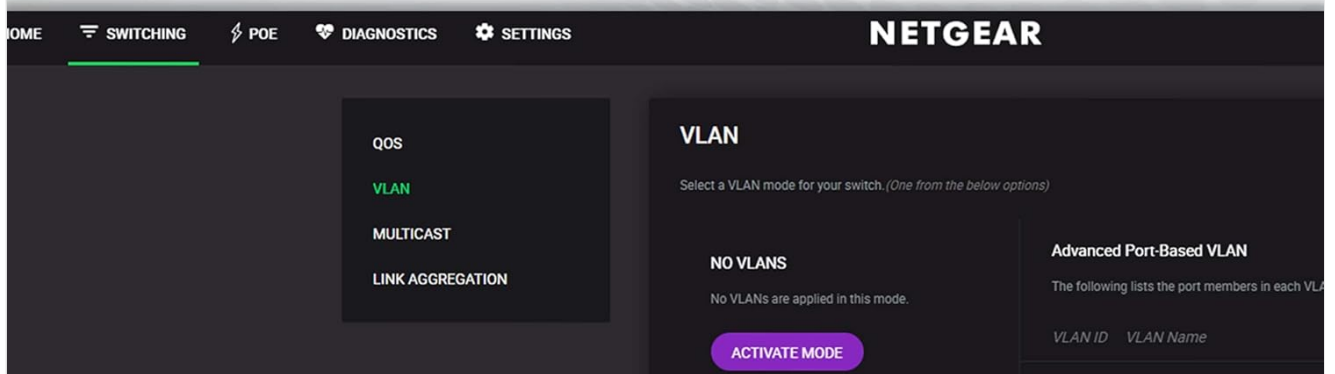
4. OPERATING THE SWITCH

4.1 Smart Managed Features

The GS308EP is an Easy Smart Managed switch, providing a user-friendly web interface for advanced network configuration. This interface allows you to:

- Configure VLANs (Virtual Local Area Networks) for network segmentation and security.
- Implement Quality of Service (QoS) to prioritize network traffic for critical applications like VoIP and video streaming.
- Monitor port status and network performance.
- Manage PoE power allocation per port.

Easy Smart Managed Switches Software Configuration & Control



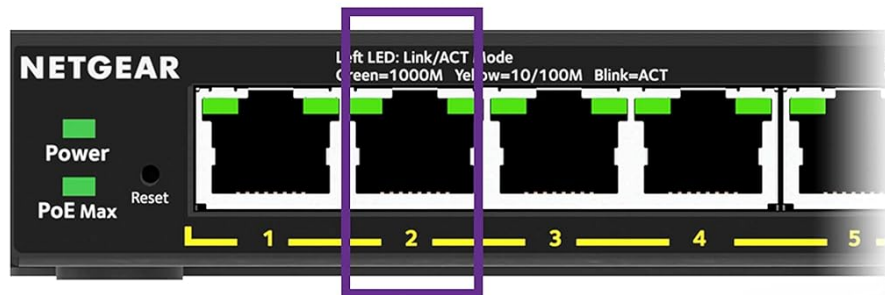
- Basic management with intuitive GUI
- VLAN Control - Configure security and performance across multiple virtual networks to reduce cost and management
- QoS - Determine traffic priority between audio, video, and file transfers
- Priority setting per port for VoIP, rate limiting, and VLANs

Figure 5: Screenshot of the intuitive web-based GUI for managing VLANs and other network settings.

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 6: Web interface for complete control over each PoE port, including power allocation and cycling.

Your browser does not support the video tag.

Video 2: Official video showcasing the features of NETGEAR Smart Managed Plus PoE Ethernet Switches.

5. MAINTENANCE

5.1 Silent Operation and Cooling

The GS308EP is designed for silent operation, making it ideal for noise-sensitive environments such as offices or homes. Its metal casing aids in passive heat dissipation, eliminating the need for internal fans and contributing to its quiet performance.

5.2 Firmware Updates

Regular firmware updates ensure optimal performance, security, and access to new features. Firmware updates can typically be performed via the switch's web interface. Refer to the [User Manual \(PDF\)](#) or the official NETGEAR support website for detailed instructions on checking for and applying firmware updates.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

- **No Power:** Ensure the power adapter is securely connected to both the switch and a working power outlet. Check the Power LED status.
- **Device Not Connecting:** Verify that the Ethernet cable is properly connected to both the switch port and the device. Check the Link/ACT LED for the corresponding port (Green for 1000M, Yellow for 100M/10M, Blinking for activity).
- **PoE Device Not Powering On:** Confirm the device is PoE-compatible. Check the PoE Powered LED (Green) for the port. If the PoE Fault LED (Yellow) is lit, there might be an issue with the device or cable. Ensure the total PoE budget (62W) is not exceeded by connected devices.
- **Network Performance Issues:** Check for excessive network traffic or potential loops. The web interface provides diagnostic tools like cable tests and loop prevention settings.

6.2 Resetting the Switch

If you encounter persistent issues, a factory reset might resolve them. Locate the Reset button on the switch (typically a small pinhole). Use a paperclip or similar pointed object to press and hold the Reset button for approximately 5-10 seconds until the LEDs flash, indicating a reset. This will revert all settings to their factory defaults.

7. SPECIFICATIONS

Feature	Description
Switch Type	PoE Managed Desktop/Wall Mount
Number of Ports	8 Gigabit Ethernet ports, 8 PoE+ ports
Total PoE Budget	62W
Data Transfer Rate	16 Gigabits Per Second (Switching Capacity)
Product Dimensions (L x W x H)	10.2" x 10.2" x 2.2"
Item Weight	2.42 pounds (1.1 Kilograms)
Case Material	Plastic
Operating Temperature	Up to 123 Degrees Fahrenheit
Compatible Devices	Computers, IP cameras, VoIP phones, network devices

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 7: Table illustrating power capabilities for PoE, PoE+, and PoE++ devices.

8. WARRANTY AND SUPPORT

8.1 Limited Hardware Warranty

The NETGEAR GS308EP switch comes with an industry-leading 3-year limited hardware warranty, ensuring reliability and peace of mind.

8.2 Additional Resources

- For a comprehensive guide, download the official [User Manual \(PDF\)](#).
- Visit the [NETGEAR Store on Amazon](#) for more product information and support.

9. IMPORTANT INFORMATION

9.1 Legal Disclaimer

WARNING: This product contains chemicals known to the State of California to cause cancer and birth

defects or other reproductive harm.

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For technical support, please refer to the official NETGEAR website or your local support contact.