

NETGEAR GS308E

NETGEAR GS308E 8-Port Gigabit Ethernet Easy Smart Managed Essentials Switch Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your NETGEAR GS308E 8-Port Gigabit Ethernet Easy Smart Managed Essentials Switch. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

The NETGEAR GS308E is designed to expand your wired network connectivity with eight Gigabit Ethernet ports, offering advanced features like VLANs and Quality of Service (QoS) through an intuitive web-based management interface. Its compact, fanless design ensures silent operation, making it suitable for various environments.

2. PACKAGE CONTENTS

- 8-port Gigabit Ethernet Plus Switch (GS308Ev4)
- 2V, 0.5A power adapter
- Installation guide

3. PHYSICAL OVERVIEW

The GS308E switch features a durable metal casing and a fanless design for quiet operation. The front panel includes all eight Gigabit Ethernet ports, along with LED indicators for power and port activity. The rear panel typically houses the power input and mounting points.

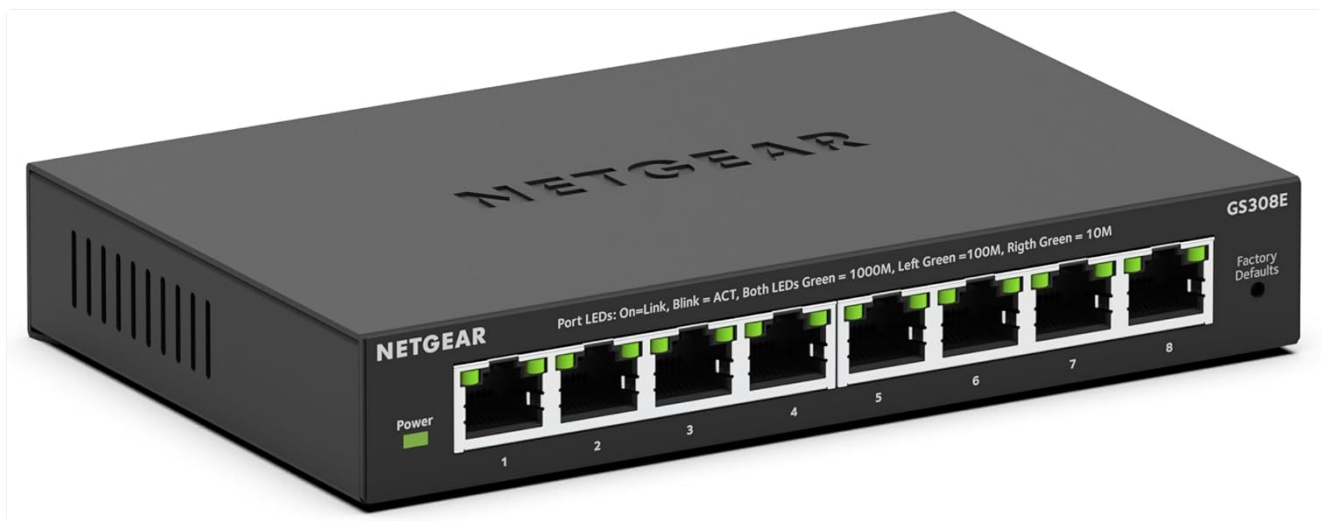


Figure 3.1: The NETGEAR GS308E switch features eight Gigabit Ethernet ports on the front panel, along with power and activity LEDs for each port. The device has a compact, fanless design for silent operation.

GS308E Key Features



- 8 x 1G Ethernet ports
- Desktop or wall mountable
- Plug-and-play
- Easy Smart Managed Essentials software for easy management
- Energy efficient for power savings
- 5 year limited warranty

Figure 3.2: This image highlights the main features of the GS308E, including its eight Gigabit Ethernet ports, flexible mounting options, and the Easy Smart Managed Essentials software for network management.

4. SETUP AND INSTALLATION

4.1 Desktop Placement

Place the switch on a flat, stable surface. Ensure adequate ventilation around the device to prevent overheating. Avoid placing the switch near heat sources or in enclosed spaces.

4.2 Wall Mounting

The GS308E can be wall-mounted using the included hardware. Identify a suitable location on a wall, ensuring it is within reach of power and network cables. Mark the positions for the mounting screws, drill pilot holes, and secure the switch to the wall.

4.3 Connecting to Power

Connect the provided power adapter to the switch's power input port and then plug the adapter into a standard electrical outlet. The Power LED on the switch will illuminate to indicate that the device is receiving power.

4.4 Connecting to Network

Use standard Ethernet cables to connect your network devices (computers, printers, game consoles, routers, etc.) to any of the eight Gigabit Ethernet ports on the switch. The corresponding port LEDs will light up when a connection is established and blink during data activity.

Easily Expand Wired Connectivity Anywhere in Your Home

Includes Easy Smart Managed Essentials software to control security & performance

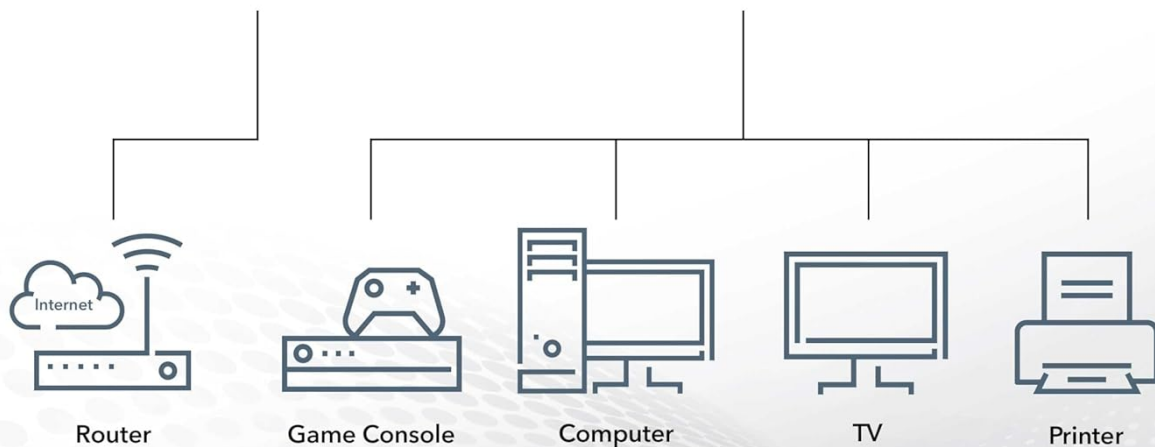
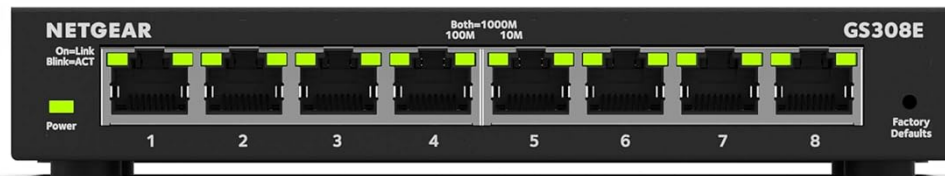


Figure 4.1: This diagram illustrates how the GS308E switch can easily expand wired connectivity in a home or office, connecting various devices to a central router for stable network access.

5. OPERATING THE SWITCH (SMART MANAGED FEATURES)

The GS308E is an Easy Smart Managed switch, offering basic management capabilities through a web-based interface. This allows for configuration of advanced network features.

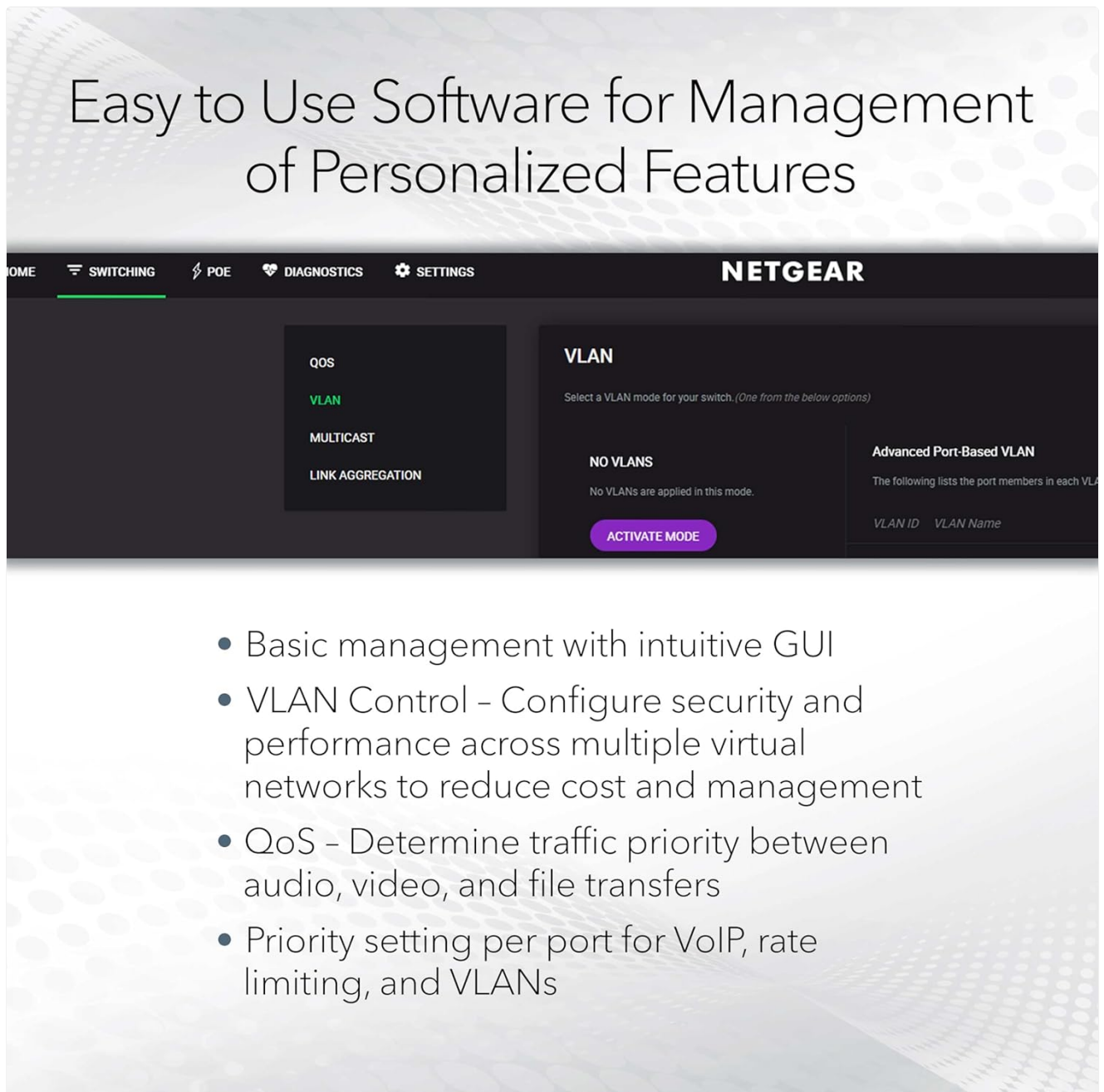
5.1 Accessing the Web Interface

1. Ensure your computer is connected to the switch.
2. Open a web browser and enter the switch's IP address. By default, the switch attempts to obtain an IP address from a DHCP server. If no DHCP server is available, it defaults to 192.168.0.239.
3. Log in using the default username (admin) and password (password). You will be prompted to change the password upon first login.

5.2 VLAN Configuration

Virtual Local Area Networks (VLANs) allow you to segment your network into smaller, isolated broadcast domains.

This can improve network security and performance by separating different types of traffic or user groups.



- 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 5.1: The intuitive web-based interface of the Easy Smart Managed Essentials software allows users to configure advanced features like VLANs for network segmentation and Quality of Service (QoS) for traffic prioritization.

Prioritize Bandwidth Between Activities, Websites, and Applications



Figure 5.2: This image demonstrates the VLAN capabilities of the GS308E, allowing users to securely segment their network into distinct virtual networks for work, home, and entertainment, enhancing security and management.

5.3 Quality of Service (QoS)

QoS allows you to prioritize network traffic, ensuring that critical applications (such as voice or video streaming) receive sufficient bandwidth even during periods of high network congestion. You can configure QoS settings per port or for specific traffic types.

Securely Separate Your Work, Home and Entertainment Networks

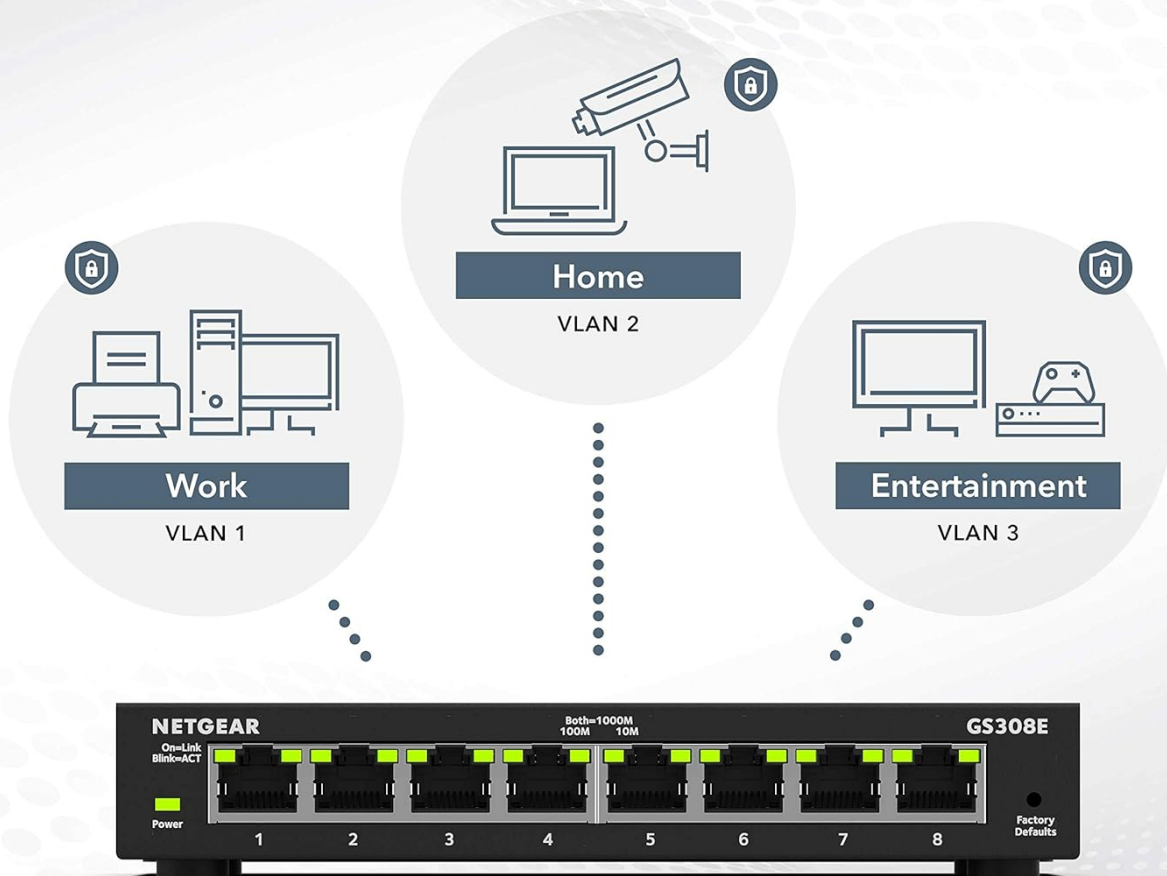


Figure 5.3: The switch's Quality of Service (QoS) features enable users to prioritize bandwidth for different types of traffic, ensuring smooth performance for critical applications like voice calls and video streaming.

6. MAINTENANCE

6.1 Firmware Update

Regularly check for and install firmware updates to ensure your switch has the latest features, security patches, and performance improvements. Firmware updates can typically be downloaded from the NETGEAR support website and uploaded via the switch's web interface.

6.2 Configuration Backup and Restore

It is recommended to back up your switch's configuration settings regularly. This allows you to quickly restore your preferred settings in case of a factory reset or if you replace the switch. The web interface provides options to save and load configuration files.

6.3 LED Indicators

The LEDs on the front panel provide visual status of the switch and its connections:

- **Power LED:** Indicates power status.
- **Port LEDs (Left Green):** Indicates a 100Mbps connection.
- **Port LEDs (Right Green):** Indicates a 10Mbps connection.
- **Port LEDs (Both Green):** Indicates a 1000Mbps (Gigabit) connection.
- **Port LEDs (Blink):** Indicates activity on the port.

7. TROUBLESHOOTING

7.1 Cable Test

The web interface includes a cable test utility that can help diagnose issues with connected Ethernet cables, such as opens, shorts, or incorrect wiring. This can assist in identifying physical layer problems.

7.2 Loop Detection

Network loops can cause broadcast storms and severely degrade network performance. The switch's loop detection feature can identify and help mitigate such issues by disabling ports involved in a loop.

7.3 Factory Reset

If you encounter persistent issues or forget your login password, you can restore the switch to its factory default settings. This will erase all custom configurations. Refer to the installation guide for the specific procedure, which usually involves pressing a reset button.

8. SPECIFICATIONS

Feature	Value
Brand	NETGEAR
Model Number	GS308E-400NAS
Number of Ports	8
Interface Type	RJ45
Data Transfer Rate	1 Gigabits Per Second
Item Weight	1.7 pounds
Package Dimensions	8.15 x 6.46 x 3.39 inches
Energy Efficiency	IEEE802.3az compliant
Silent Operation	Yes (Fanless design)

9. PRODUCT OVERVIEW VIDEO

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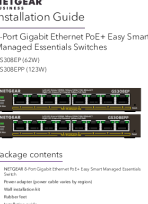
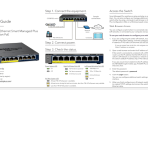


Video 9.1: This video provides a concise overview of the NETGEAR GS308E switch, showcasing its design and key functionalities.

10. WARRANTY AND SUPPORT

The NETGEAR GS308E switch comes with an industry-leading 5-year limited hardware warranty. For detailed warranty information, technical support, or to register your product, please visit the official NETGEAR support website.

NETGEAR Support: www.netgear.com/support

Related Documents - GS308E

	<p>NETGEAR Gigabit Ethernet Smart Managed Plus Switches User Manual</p> <p>This user manual provides comprehensive information on NETGEAR Gigabit Ethernet Smart Managed Plus Switches, including hardware details, setup instructions, network management, diagnostics, and troubleshooting. It covers models GS105Ev2, GS105PE, GS108Ev3, GS108PEv3, GS116Ev2, GS305E, GS308E, JGS516PE, JGS524Ev2, and JGS524PE.</p>
	<p>NETGEAR XS512EMv2 & XS724EMv2 10-Gigabit Easy Smart Managed Switch User Manual</p> <p>Comprehensive user manual for NETGEAR's 10-Port (XS512EMv2) and 24-Port (XS724EMv2) 10-Gigabit/Multi-Gigabit Easy Smart Managed Switches. Covers installation, configuration, performance optimization, VLANs, management, maintenance, and troubleshooting.</p>
	<p>NETGEAR 8-Port Gigabit Ethernet PoE+ Easy Smart Managed Essentials Switches Installation Guide</p> <p>Installation guide for NETGEAR 8-Port Gigabit Ethernet PoE+ Easy Smart Managed Essentials Switches (GS308EP and GS308EPP). Covers setup, LED indicators, PoE considerations, troubleshooting, and regulatory information.</p>
	<p>NETGEAR GS108PEv3 8-Port Gigabit Ethernet Smart Managed Plus Switch with 4-Port PoE Installation Guide</p> <p>Installation guide for the NETGEAR GS108PEv3, an 8-port Gigabit Ethernet Smart Managed Plus Switch featuring 4-Port PoE. Learn how to connect equipment, power the switch, check status, and access advanced configuration features via web browser or utility.</p>
	<p>NETGEAR GS105Ev2 5-Port Gigabit Ethernet Smart Managed Plus Switch Installation Guide</p> <p>Installation guide for the NETGEAR GS105Ev2 5-Port Gigabit Ethernet Smart Managed Plus Switch, detailing setup, registration, network connection, and IP address discovery.</p>
	<p>NETGEAR GS108Tv3 8-Port Gigabit Ethernet Smart Managed Pro Switch Installation Guide</p> <p>This guide provides instructions for installing and configuring the NETGEAR GS108Tv3 8-Port Gigabit Ethernet Smart Managed Pro Switch with Cloud Management. It covers package contents, connecting the switch, registering with the NETGEAR Insight app, and logging in to configure the switch.</p>