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NETGEAR GS105Ev2

NETGEAR 5-Port Gigabit Ethernet Easy Smart Managed Switch (GS105Ev2)

User Manual

Model: GS105Ev2 | Brand: NETGEAR

1. Introduction

The NETGEAR GS105Ev2 Smart Managed Plus Desktop Switch is designed to provide robust and reliable network connectivity for small office and home office environments. Featuring 5 Gigabit Ethernet ports, this switch offers enhanced features for configuring, securing, and monitoring your network with an easy-to-use interface.

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your GS105Ev2 switch to ensure optimal performance and longevity.

2. Package Contents

Verify that your package contains the following items:

- NETGEAR 5-Port Gigabit Ethernet Easy Smart Managed Switch (GS105Ev2)
- Power Adapter
- Installation Guide
- Resource CD (dvd)
- Wall-mount kit (if applicable)

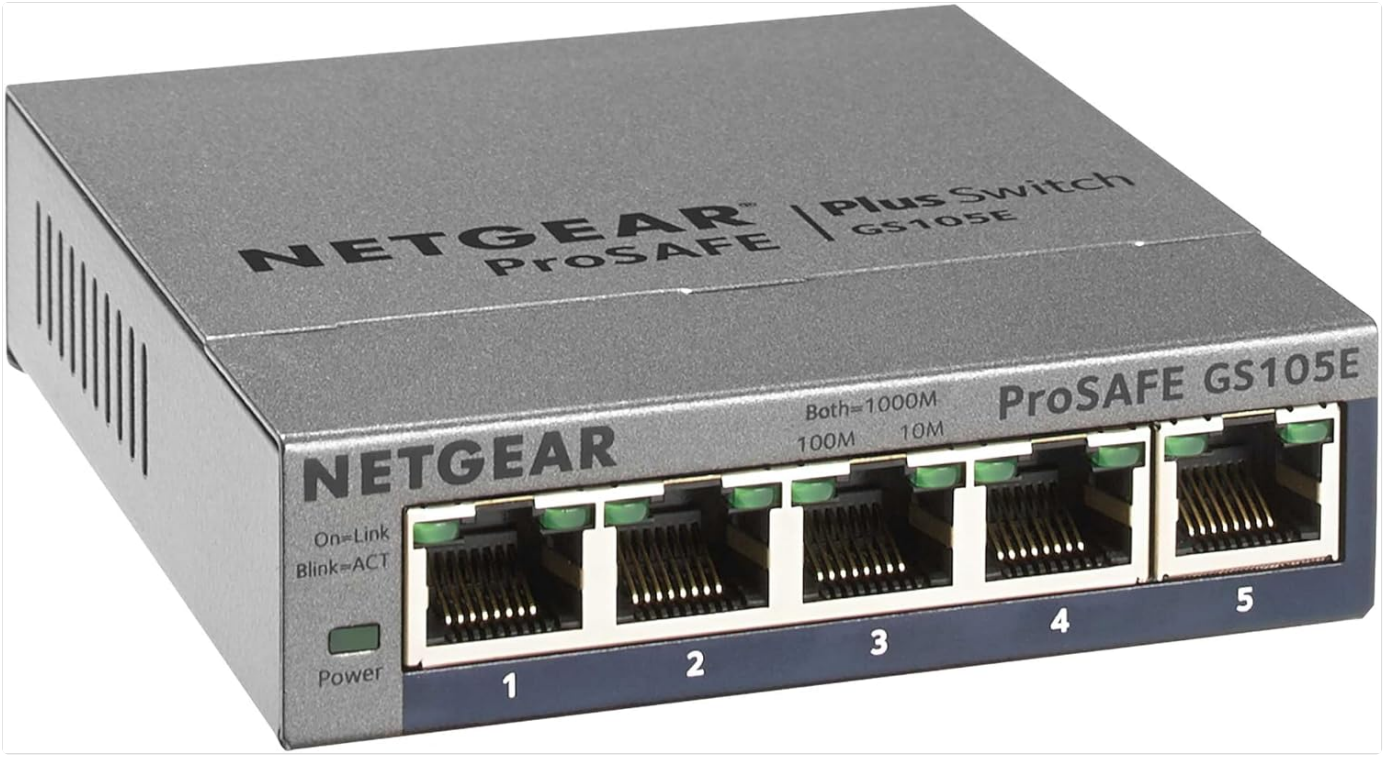


Figure 2.1: NETGEAR GS105Ev2 Switch (Front View)

This image shows the front view of the NETGEAR GS105Ev2 switch, highlighting its five Gigabit Ethernet ports and LED indicators for power and link/activity.

3. Key Features

The GS105Ev2 switch offers a range of features designed for efficient network management:

- **5 Gigabit Ethernet ports:** Provides high-speed wired connections for multiple devices.
- **Easy Smart Managed software:** Offers basic managed capabilities to configure, secure, and monitor your network through an intuitive interface.
- **Desktop or wall mount placement:** Flexible installation options to suit your environment.
- **Energy efficient design:** Compliant with IEEE802.3az for reduced power consumption.
- **Quiet operation:** Fanless design ensures silent performance.
- **ProSAFE Lifetime Protection:** Includes Lifetime Limited Hardware Warranty, Next Business Day Replacement, and 24/7 chat support.



Figure 3.1: NETGEAR GS105Ev2 Features and Dimensions

This image illustrates the front and back views of the GS105Ev2 switch, highlighting its 5 x 1G Ethernet ports, silent operation, desktop or wall mount capability, and compact dimensions (1.1 x 4.1 x 3.7 inches).

4. Setup and Installation

4.1 Physical Installation

1. **Placement:** Choose a stable, flat surface for desktop placement, or a suitable wall location if using the wall-mount kit. Ensure adequate ventilation around the switch.
2. **Power Connection:** Connect the provided power adapter to the switch's power input port and then plug it into a power outlet. The Power LED on the front panel should illuminate.

4.2 Network Connection

1. **Connect Devices:** Use standard Ethernet cables (Cat5e or higher) to connect your network devices (computers, servers, network printers, routers, etc.) to the Gigabit Ethernet ports (1-5) on the front of the switch.

2. **Verify Connection:** For each connected device, the corresponding Link/Act LED on the switch's front panel should light up (green for Gigabit, amber for 10/100 Mbps) and blink to indicate network activity.

5. Operating the Switch

5.1 Basic Operation (Plug-and-Play)

The GS105Ev2 functions as a plug-and-play switch for basic network connectivity. Once powered on and devices are connected, it automatically detects network speeds and establishes connections without further configuration.

5.2 Accessing the Smart Managed Software

To utilize the advanced features of your Easy Smart Managed switch, you need to access its web-based management interface. Refer to the included Resource CD or the official NETGEAR support website for the Smart Control Center utility, which helps discover the switch's IP address and launch the web interface.

5.3 Configuring Advanced Features

Through the web interface, you can configure various advanced features:

- **VLAN Control:** Configure Virtual Local Area Networks to segment your network for improved security and performance.
- **QoS (Quality of Service):** Prioritize network traffic (e.g., voice, video) to ensure smooth performance for critical applications.
- **Port Mirroring:** Monitor network traffic by sending copies of packets from one port to another.
- **Link Aggregation:** Combine multiple network connections to increase throughput and provide redundancy.



Figure 5.1: Smart Managed Software Interface - VLAN Configuration

This image displays a screenshot of the NETGEAR Easy Smart Managed Switches software interface, specifically showing options for VLAN configuration, QoS, Multicast, and Link Aggregation.

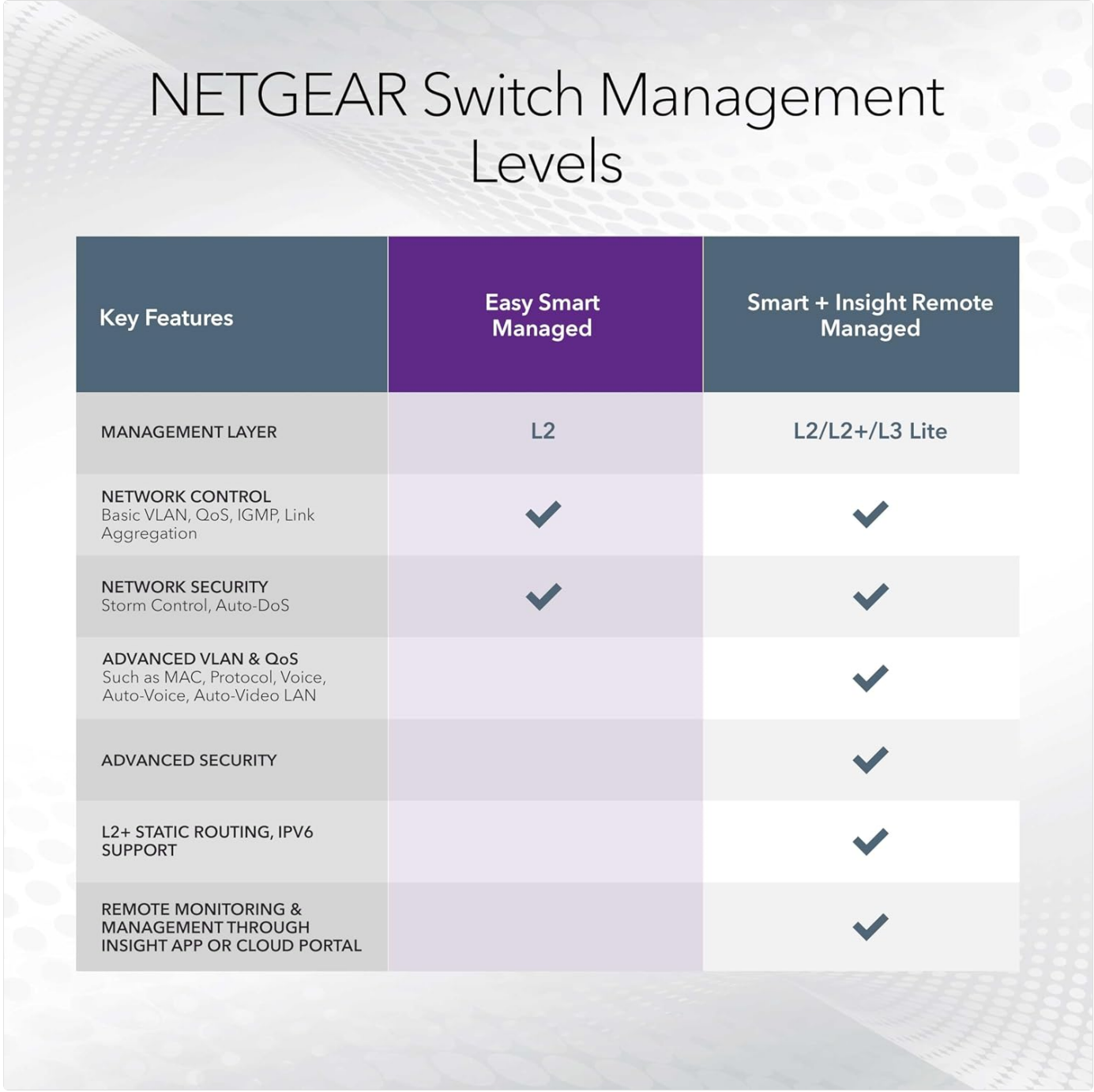


Figure 5.2: Comparison of NETGEAR Switch Management Levels

This image presents a table comparing key features across different NETGEAR switch management levels, including Easy Smart Managed and Smart + Insight Remote Managed, detailing network control, security, and advanced features.

6. Maintenance and Care

To ensure the longevity and optimal performance of your NETGEAR GS105Ev2 switch, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation holes on the sides of the switch are not blocked. Proper airflow prevents overheating.
- **Environment:** Operate the switch within its specified temperature and humidity ranges (refer to Specifications section). Avoid placing it in direct sunlight or near heat sources.
- **Cable Management:** Keep network cables organized and untangled to prevent accidental disconnections or damage to ports.

- **Firmware Updates:** Periodically check the NETGEAR support website for firmware updates. Keeping your firmware up-to-date can improve performance, add features, and enhance security.

7. Troubleshooting

This section addresses common issues you might encounter with your GS105Ev2 switch.

7.1 No Power LED

- **Check Power Connection:** Ensure the power adapter is securely connected to the switch and the power outlet.
- **Verify Outlet:** Test the power outlet with another device to confirm it is functional.
- **Use Original Adapter:** Only use the power adapter supplied with the switch.

7.2 No Link/Activity LED

- **Cable Check:** Ensure the Ethernet cable is securely plugged into both the switch port and the device. Try a different cable.
- **Device Status:** Verify that the connected device (computer, router) is powered on and its network adapter is enabled.
- **Port Test:** Try connecting the device to a different port on the switch.
- **Cable Type:** Ensure you are using a standard Ethernet cable (Cat5e or higher).

7.3 Slow Network Speed

- **Cable Quality:** Ensure all Ethernet cables are Cat5e or Cat6 for Gigabit speeds. Older Cat5 cables may limit speed to 10/100 Mbps.
- **Device Capability:** Confirm that the connected devices' network adapters support Gigabit Ethernet.
- **Network Congestion:** High network traffic can cause slowdowns. Consider optimizing your network configuration or upgrading to a higher capacity switch if needed.
- **Firmware:** Ensure the switch firmware is up to date.

8. Specifications

Attribute	Detail
Brand	NETGEAR
Model Number	GS105E-200NAS
Switch Type	Managed
Number of Ports	5
Data Transfer Rate	1000 Megabits Per Second (Gigabit)
Interface Type	RJ45
Product Dimensions (LxWxH)	3.7 x 3.9 x 1.06 inches
Item Weight	9 ounces
Voltage	12 Volts
Case Material	Plastic

Attribute	Detail
Upper Temperature Rating	122 Degrees Fahrenheit (50 Degrees Celsius)
UPC	606449101515

9. Warranty and Support

NETGEAR provides comprehensive support for its products:

- **Lifetime Limited Hardware Warranty:** Your GS105Ev2 switch is backed by a Lifetime Limited Hardware Warranty.
- **Next Business Day Replacement:** In case of a hardware issue, eligible replacements are processed for next business day delivery.
- **24/7 Chat Support:** Access to 24/7 chat support with a NETGEAR expert for technical assistance.
- **Protection Plans:** Additional protection plans may be available for purchase, offering extended coverage.
- **Online Resources:** For the latest documentation, firmware, and support information, visit the official NETGEAR support website. You can also find the User Guide (PDF) and User Manual (PDF) at NETGEAR User Guide and NETGEAR User Manual.

For further assistance, please contact NETGEAR customer support.

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