

## NETGEAR GS105NA

# NETGEAR GS105NA 5-Port Gigabit Ethernet Unmanaged Switch User Manual

Model: GS105NA

## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your NETGEAR GS105NA 5-Port Gigabit Ethernet Unmanaged Switch. The GS105NA is designed to expand your network connectivity with five Gigabit Ethernet ports, offering high-speed data transfer for various devices.

The switch features a durable metal casing, plug-and-play functionality, and supports energy-efficient operation. It is suitable for both desktop placement and wall mounting, providing flexible deployment options for home or small office environments.

## 2. PACKAGE CONTENTS

Verify that your package contains the following items:

- NETGEAR GS105NA 5-Port Gigabit Ethernet Unmanaged Switch
- Power Adapter
- Wall-Mount Kit
- Installation Guide
- Warranty/Support Information Card

## 3. PRODUCT OVERVIEW

### 3.1 Front Panel

The front panel of the GS105NA switch features the power indicator and five Gigabit Ethernet ports, each with its own status LEDs.

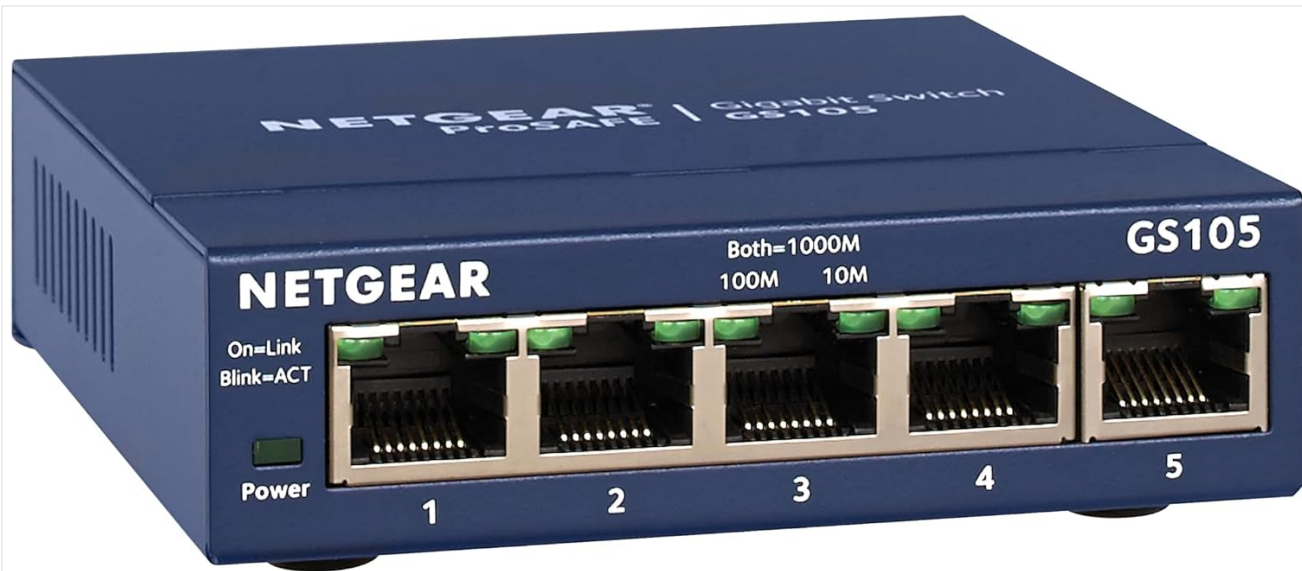


Image 3.1: Front view of the NETGEAR GS105NA switch, showing the five Ethernet ports, power LED, and link/activity LEDs.

- **Power LED:** Indicates the power status of the switch. Green for power on.
- **Ethernet Ports (1-5):** RJ45 ports for connecting network devices. Each port supports 10/100/1000 Mbps speeds.
- **Link/Activity LEDs (per port):**
  - **Green (Solid):** A device is connected at Gigabit (1000 Mbps) speed.
  - **Green (Blinking):** Data activity is occurring at Gigabit speed.
  - **Amber (Solid):** A device is connected at 10/100 Mbps speed.
  - **Amber (Blinking):** Data activity is occurring at 10/100 Mbps speed.

### 3.2 Rear Panel

The rear panel includes the power input and an On/Off switch.



Image 3.2: Rear view of the NETGEAR GS105NA switch, displaying the 12V 0.5A power input, On/Off switch, and Kensington lock slot.

- **Power Input:** Connect the provided power adapter here. Use only the power adapter supplied with your device.
- **On/Off Switch:** Controls the power to the device.
- **Kensington Lock Slot:** For securing the device with a compatible lock (not included).

## 4. SETUP

The NETGEAR GS105NA switch is designed for simple plug-and-play installation, requiring no software configuration.

## 4.1 Installation Options

The switch can be placed on a desktop or mounted on a wall.

- **Desktop Placement:** Place the switch on a flat, stable surface. Ensure adequate ventilation around the device.
- **Wall Mounting:** Use the included wall-mount kit to secure the switch to a wall. Refer to the separate installation guide for detailed wall-mounting instructions.

## 4.2 Connecting Devices

1. **Power Connection:** Connect the provided power adapter to the power input on the rear panel of the switch. Plug the other end of the adapter into a power outlet. Turn on the switch using the On/Off switch. The Power LED on the front panel should illuminate green.
2. **Network Device Connection:** Connect your network devices (e.g., computers, printers, network-attached storage, routers) to any of the five Ethernet ports on the front panel using standard Ethernet cables. The switch's auto-sensing ports will automatically detect the correct speed and duplex mode for each connected device.
3. **Verify Connection:** Once a device is connected, the corresponding Link/Activity LED for that port should light up (green for Gigabit, amber for 10/100 Mbps). If the LED is blinking, it indicates data activity.

## 5. OPERATING THE SWITCH

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The NETGEAR GS105NA is an unmanaged switch, meaning it operates automatically without requiring user configuration. Once connected, it facilitates network communication between all connected devices.

- **Automatic Speed and Duplex Detection:** Each port automatically detects the speed (10, 100, or 1000 Mbps) and duplex mode (half or full) of the connected device.
- **Energy Efficient Ethernet (IEEE 802.3az):** The switch supports energy-saving features by reducing power consumption during periods of low network activity or when a port is idle.
- **Quiet Operation:** The fanless design ensures silent operation, making it suitable for noise-sensitive environments.
- **Traffic Prioritization (QoS):** The switch supports DSCP-based Quality of Service (QoS) for traffic prioritization, ensuring critical network traffic receives preferential treatment.

## 6. MAINTENANCE

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The NETGEAR GS105NA switch requires minimal maintenance to ensure optimal performance and longevity.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings are not blocked. Do not place the switch in an enclosed space without proper airflow.
- **Environmental Conditions:** Operate the switch within the specified temperature and humidity ranges (refer to Specifications section).
- **Firmware Updates:** As an unmanaged switch, firmware updates are typically not required or available.

## 7. TROUBLESHOOTING

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If you encounter issues with your NETGEAR GS105NA switch, refer to the following common troubleshooting steps:

1. **No Power:**

- Ensure the power adapter is securely connected to the switch and a working power outlet.
- Verify the On/Off switch on the rear panel is in the 'On' position.
- Check if the Power LED on the front panel is illuminated green.

2. **No Link Light for a Connected Device:**

- Ensure the Ethernet cable is securely connected to both the switch port and the device's network port.
- Try a different Ethernet cable.
- Connect the device to a different port on the switch.
- Verify the connected device's network adapter is enabled and functioning correctly.

3. **Slow Network Speed:**

- Check the Link/Activity LED color for the connected port. Green indicates Gigabit speed, Amber indicates 10/100 Mbps. If amber, ensure your device and cable support Gigabit speeds.
- Ensure all Ethernet cables are Cat5e or Cat6 for optimal Gigabit performance.
- Restart the switch and all connected network devices.

4. **Intermittent Connectivity:**

- Check for loose cable connections.
- Ensure the switch is placed in a well-ventilated area and not overheating.
- Test with different Ethernet cables.

If issues persist, refer to the support information provided in the Warranty and Support section.

8. SPECIFICATIONS

|                                |                                          |
|--------------------------------|------------------------------------------|
| Model                          | GS105NA                                  |
| Number of Ports                | 5 Gigabit Ethernet (RJ45)                |
| Data Transfer Rate             | 10/100/1000 Mbps (Gigabit)               |
| Product Dimensions (L x W x H) | 3.9" x 3.7" x 1.1" (99mm x 94mm x 28mm)  |
| Item Weight                    | 1.08 pounds (490 Grams)                  |
| Case Material                  | Metal                                    |
| Voltage                        | 24 Volts (DC)                            |
| Current Rating                 | 0.5 Amps                                 |
| Operating Temperature          | 32°F to 122°F (0°C to 50°C)              |
| Energy Efficiency              | IEEE 802.3az (Energy Efficient Ethernet) |
| QoS Support                    | DSCP-based QoS                           |

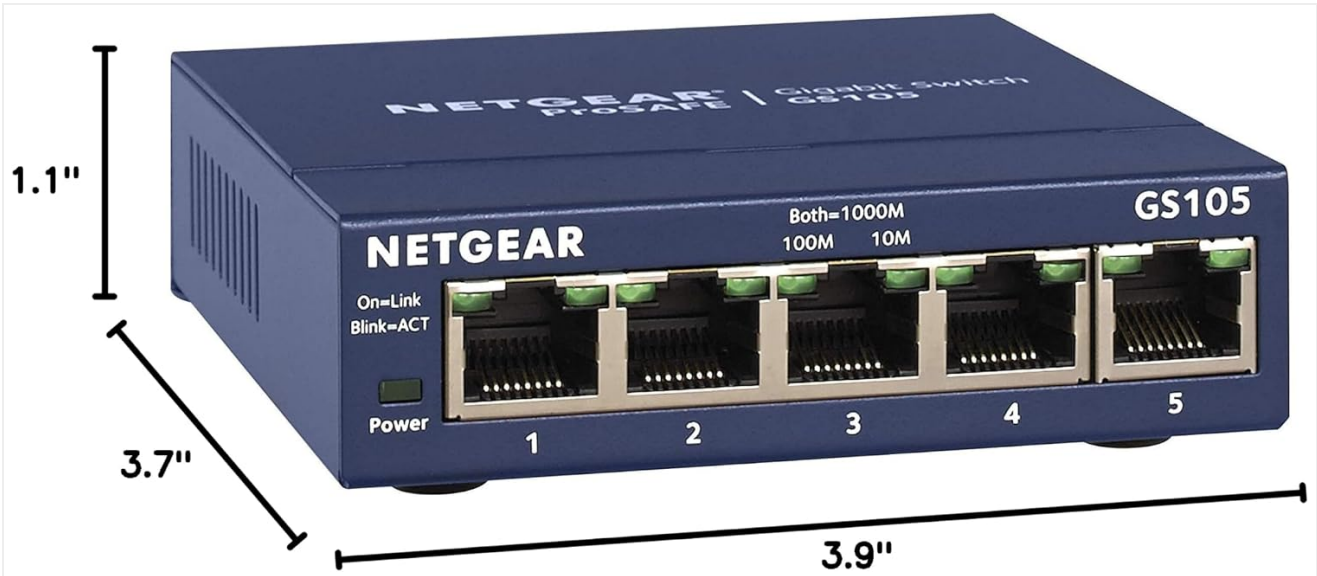


Image 8.1: Diagram showing the physical dimensions of the NETGEAR GS105NA switch.

## 9. WARRANTY AND SUPPORT

NETGEAR provides comprehensive support for its products.

- **Limited Lifetime Hardware Warranty:** The NETGEAR GS105NA switch is backed by a Limited Lifetime Hardware Warranty. Please refer to the warranty card included in your package for full terms and conditions.
- **Next Business Day Replacement:** Eligible products may qualify for next business day replacement services.
- **24/7 Chat Support:** Access 24/7 chat support with a NETGEAR expert for technical assistance.
- **Online Resources:** For additional support, documentation, and FAQs, visit the official NETGEAR support website. You can also find the User Guide and Installation Manual PDFs online:
  - [User Guide \(PDF\)](#)
  - [Installation Manual \(PDF\)](#)