NETGEAR GS116NA

NETGEAR ProSafe GS116 16-Port Gigabit Ethernet Switch User Manual

Model: GS116NA

1. Introduction

The NETGEAR ProSafe GS116 is a high-performance, 16-port Gigabit Ethernet switch designed for small to medium-sized businesses and advanced home networks. This unmanaged switch provides 16 auto-sensing 10/100/1000 Mbps RJ-45 ports, allowing for seamless integration of various network devices. Its plug-and-play design ensures easy installation and immediate network expansion without complex configuration.
Key features include:

- 16 Gigabit Ethernet ports for high-speed connectivity.
- Automatic MDI/MDIX eliminates the need for crossover cables.
- Energy-efficient design for reduced power consumption.
- Durable metal casing for reliable operation.

2. Package Contents

Verify that your package contains the following items:

- NETGEAR ProSafe GS116 16-port Gigabit Switch
- Wall-mount kit
- AC adapter (5VDC, 5A)
- Installation guide
- Warranty/Support information card

If any items are missing or damaged, please contact NETGEAR support.

3. Setup and Installation

3.1 Physical Placement

Place the switch on a flat, stable surface or mount it to a wall using the provided kit. Ensure adequate ventilation around the device to prevent overheating. Avoid placing the switch near heat sources or in direct sunlight.

3.2 Connecting the Switch

1. **Connect the Power Adapter:** Plug the AC adapter into the power port on the rear of the switch and then into a standard electrical outlet. The Power LED on the front of the switch should illuminate.
2. **Connect Network Devices:** Use standard Ethernet cables (Cat5e or higher recommended for Gigabit speeds) to connect your computers, servers, network printers, and other network devices to any of the 16 RJ-45 ports on the front of the switch.

Figure 1: Front view of the GS116 switch, showing 16 RJ-45 Gigabit Ethernet ports, Power LED, and Link/Act/Speed LEDs for each port.

Figure 2: Rear view of the GS116 switch, showing the 5VDC power input port and ventilation slots.

The switch is plug-and-play and does not require any software configuration. Once connected, devices should automatically detect the network and establish a connection.

4. Operating the Switch

The NETGEAR ProSafe GS116 is an unmanaged switch, meaning it operates automatically without user intervention. Simply connect your devices, and the switch will handle data traffic efficiently.

4.1 LED Indicators

The front panel of the switch features several LED indicators to provide status information:

- **Power LED:**
  - **Solid Green:** The switch is powered on and operating normally.
  - **Off:** The switch is not receiving power.
- **Link/Act LEDs (per port):** Each RJ-45 port has two LEDs.
  - **Solid Green (left LED):** A valid network link is established at 1000 Mbps (Gigabit speed).
  - **Flashing Green (left LED):** Data activity is occurring on the 1000 Mbps link.
  - **Solid Amber (right LED):** A valid network link is established at 10/100 Mbps.
  - **Flashing Amber (right LED):** Data activity is occurring on the 10/100 Mbps link.
  - **Off:** No network link is detected on the port.

These indicators help you quickly assess the status of your network connections.

5. Maintenance

The NETGEAR ProSafe GS116 switch is designed for reliable, maintenance-free operation. However, following these guidelines can help ensure its 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 slots are not blocked. Proper airflow is crucial for dissipating heat.
- **Environment:** Operate the switch within its specified temperature and humidity ranges. Avoid extreme conditions.
- **Cable Management:** Keep network cables organized and free from kinks or excessive bends to prevent signal degradation.

6. Troubleshooting

If you encounter issues with your NETGEAR ProSafe GS116 switch, try the following basic troubleshooting steps:

- **No Power:**
  - Check if the power adapter is securely connected to the switch and a working electrical outlet.
  - Verify that the Power LED on the front panel is illuminated.
- **No Link on a Port:**
  - Ensure the Ethernet cable is securely plugged into both the switch port and the network device.
  - Try a different Ethernet cable.
  - Connect a different network device to the same port to rule out an issue with the original device.
  - Try connecting the device to a different port on the switch.
  - Verify that the connected device is powered on and functioning correctly.
- **Slow Network Speed:**
  - Check the Link/Act LEDs for the connected port. A green LED indicates Gigabit speed, while an amber LED indicates 10/100 Mbps.
  - Ensure all connected devices and cables support Gigabit Ethernet for optimal performance.
  - Restart the switch and connected devices.

If problems persist after performing these steps, refer to the support information provided in Section 8.

7. Technical Specifications

Feature	Specification
Model Number	GS116NA
Number of Ports	16
Interface	16 x RJ-45 10/100/1000Base-T LAN
Connectivity Protocol	Ethernet
Operating Voltage	5 Volts DC
Dimensions (Height x Width x Depth)	1.06" x 11.22" x 4.06" (approx. 2.7 x 28.5 x 10.3 cm)
Weight	1.98 pounds (approx. 0.9 kg)
Material	Metal

UPC	606449034998

Note: Specifications are subject to change without notice.

8. Warranty and Support

NETGEAR products are designed for reliability and performance. The ProSafe GS116 switch typically comes with a limited lifetime hardware warranty. Please refer to the warranty/support information card included in your package for specific terms and conditions applicable to your region.
For technical support, product registration, and additional resources, please visit the official NETGEAR support website or contact their customer service. The product box indicates 24/7 technical support is available.

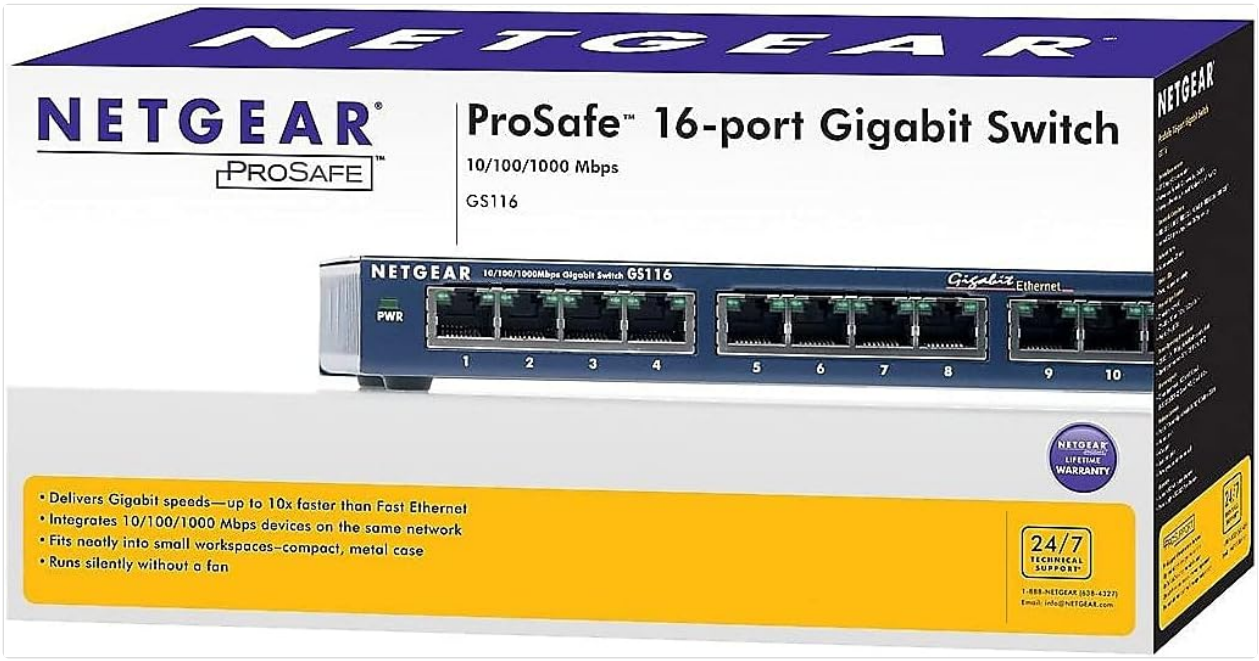

Figure 3: Product packaging, indicating NETGEAR Lifetime Warranty and 24/7 Technical Support.

You can often find detailed FAQs, firmware updates, and community forums on the NETGEAR support portal.