

NETGEAR JGS524

NETGEAR JGS524 24-Port Gigabit Ethernet Unmanaged Switch User Manual

Model: JGS524 | Brand: NETGEAR

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your NETGEAR JGS524 24-Port Gigabit Ethernet Unmanaged Switch. This device is designed to expand your network capacity with 24 Gigabit Ethernet ports, offering high-speed connectivity for various devices without requiring complex configuration.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- NETGEAR JGS524 24-Port Gigabit Ethernet Unmanaged Switch
- Power Adapter/Cord
- Rackmount Kit (for rack installation)
- Installation Guide (may be included as a printed document or on a DVD)



Image: The retail packaging for the NETGEAR JGS524 switch, showing the device and its key features.

3. SETUP

3.1 Physical Installation

The JGS524 switch supports both desktop and rackmount placement.

Desktop Placement:

1. Choose a flat, stable surface for the switch.
2. Ensure adequate ventilation around the device to prevent overheating.
3. Avoid placing the switch near sources of electromagnetic interference.

Rackmount Placement:

Use the included rackmount kit to install the switch into a standard 19-inch equipment rack.

1. Attach the two rackmount brackets to the sides of the switch using the provided screws.
2. Secure the switch into the rack using appropriate rack screws (not typically included with the switch).

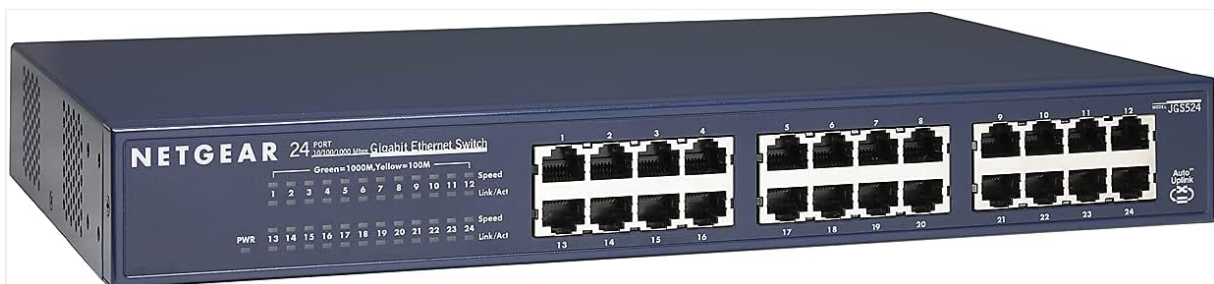


Image: Front view of the NETGEAR JGS524 switch, displaying 24 Gigabit Ethernet ports and LED indicators.

3.2 Connecting the Switch

1. **Connect Power:** Plug the power cord into the power receptacle on the rear panel of the switch, then plug the other end into a standard electrical outlet.
2. **Connect Network Devices:** Connect your network devices (computers, servers, network printers, etc.) to any of the 24 Ethernet ports on the front panel using standard Ethernet cables. The switch supports auto-negotiation for speed and duplex, and Auto Uplink (MDI/MDIX) for cable type.



Image: Rear view of the NETGEAR JGS524 switch, showing the power input and security lock slot.

4. OPERATING THE SWITCH

4.1 Powering On

Once the power cord is connected, the switch will automatically power on. There is no power button. The Power LED on the front panel will illuminate to indicate that the switch is receiving power.

4.2 LED Indicators

The front panel of the JGS524 switch features LED indicators for power, link/activity, and speed for each port. These LEDs provide visual feedback on the switch's status and network activity.

LED Indicator Status

LED	Status	Description
PWR	Solid Green	The switch is powered on.
Link/Act (per port)	Solid Green	A device is connected to the port.
	Flashing Green	Data activity is occurring on the port.
Speed (per port)	Green	The port is operating at 1000 Mbps (Gigabit) speed.
	Yellow	The port is operating at 100 Mbps speed.
	Off	The port is operating at 10 Mbps speed.



Image: Angled view of the NETGEAR JGS524 switch, highlighting the front panel with its 24 Ethernet ports and corresponding LED indicators.

5. MAINTENANCE

The NETGEAR JGS524 switch is designed for reliable, maintenance-free operation. However, following these guidelines can help ensure its longevity:

- **Cleaning:** Periodically wipe the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings on the sides of the switch are not blocked. Proper airflow is crucial for heat dissipation.
- **Cable Management:** Keep network cables organized and free from excessive bends or kinks to prevent signal degradation.
- **Power Supply:** Use only the power adapter supplied with the switch. If a replacement is needed, contact NETGEAR support.

6. TROUBLESHOOTING

If you encounter issues with your JGS524 switch, refer to the following common troubleshooting steps:

- **No Power:**
 - Check if the power cord is securely connected to both the switch and the electrical outlet.
 - Verify that the electrical outlet is functioning by plugging in another device.
 - Ensure the Power LED on the front panel is illuminated.
- **No Link Light for a Connected Device:**
 - Ensure the Ethernet cable is securely plugged into 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 that the connected device is powered on and its network adapter is enabled.
- **Slow Network Speed:**
 - Check the Speed LED for the connected port. Green indicates Gigabit (1000 Mbps), Yellow indicates 100 Mbps, and Off indicates 10 Mbps.
 - Ensure all connected devices and cables support Gigabit Ethernet for optimal performance.
 - Inspect Ethernet cables for damage or excessive length. Cat5e or Cat6 cables are recommended for Gigabit speeds.
 - Temporarily disconnect other devices to see if network congestion is the cause.

7. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the NETGEAR JGS524 Unmanaged Switch:

Feature	Specification
Model Number	JGS524NA
Number of Ports	24 Gigabit Ethernet (RJ45)
Data Transfer Rate	10/100/1000 Mbps (Auto-sensing)
Switching Capacity	Up to 48 Gbps
Case Material	Metal
Product Dimensions (L x W x H)	18.11" x 9.13" x 3.23"
Item Weight	4.97 pounds

Feature	Specification
Voltage	240 Volts (Input range typically 100-240V AC)
Operating Temperature	Up to 60 Degrees Celsius
Features	Plug-and-play, Auto MDI/MDIX, Energy Efficient (IEEE802.3az), Silent Operation
Compatible Devices	Laptop, Printer, and other Ethernet-enabled devices

8. WARRANTY AND SUPPORT

NETGEAR provides comprehensive support for its products.

- **Warranty:** This product comes with a Lifetime Limited Hardware Warranty.
- **Replacement:** Next Business Day Replacement service is available under warranty terms.
- **Technical Support:** 24/7 chat support with a NETGEAR expert is available.
- **Online Resources:** For additional support, FAQs, and driver downloads, please visit the official NETGEAR support website.

For detailed warranty information and to access support resources, please visit the [NETGEAR Support website](#).