

# NETGEAR® Installation Guide

## ProSafe® Plus 24-port Gigabit Switch JGS524E

### Start Here

Estimated Installation Time: 5–10 minutes

### Unpack the Box and Verify the Contents

When you open the box, verify that you received everything. The package includes:

- ProSafe® Plus 24-port Gigabit Switch JGS524E
- AC power cord
- Rack mounting kit
- *Installation Guide* (this document)
- *Resource CD* (contains switch configuration software)

If you don't have everything listed above, get contact information at [www.NETGEAR.com](http://www.NETGEAR.com) in the Support area.

### Prepare to Install the Switch

Decide where you want to place the switch. Find a flat horizontal surface such as a table, desk or shelf. The switch comes with a rack mounting kit. You can use the kit if you want to mount the switch in an equipment rack. Make sure the selected location is:

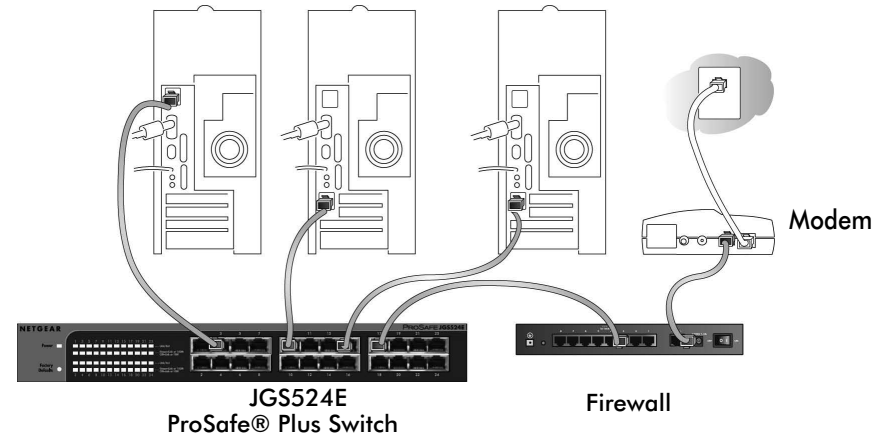
- Not in direct sunlight or near a heater or heating vent.
- Not cluttered or crowded. There should be at least 2 inches (5 cm) of clear space on all sides of the switch.
- Well ventilated (especially if it is in a closet).

Also, you will need one Category 5e (Cat 5e) Ethernet cable with RJ-45 connectors for each device you want to connect to the switch. Each Ethernet cable must be less than 328 feet (100 meters).

### Install the Switch and Connect the Other Devices

1. Place the switch on a flat surface or mount in a rack.

2. For each device, insert one end of an Ethernet cable into the port in the device and insert the other end into one of the Ethernet ports on the switch.



3. Connect the power cord into the back of the switch and then plug the cord into an AC power source (such as a wall socket or power strip). The Power light should light up



4. Check the LEDs to confirm that all connections are correct.

LED	Activity
Power	<ul style="list-style-type: none"> <li>• <b>On:</b> Switch has power.</li> <li>• <b>Off:</b> No power.</li> </ul>
RJ-45 ports	<ul style="list-style-type: none"> <li>• <b>Top LED on/Blink:</b> Link/Activity</li> <li>• <b>Bottom LED Off/Green:</b> 10 Mbps/100Mbps.</li> </ul>

### Set Up the Switch Configuration Utility

In order to make use of the switch's enhanced features you can install and use a switch configuration utility. This utility is on the **Resource CD** shipped with the switch.

**Note:** The configuration utility is installed on your PC and is only supported on MS Windows.

### Install the Configuration Utility

To install the ProSafe® Plus Switch Configuration Utility:

1. Insert the *Resource CD* into a PC connected to the switch.
2. Click on **Install ProSafe Plus Utility** and follow the prompts to install the program. The switch configuration utility will be installed in the program directory of your PC and a **ProSafe Plus Utility** icon will be placed on your desktop.

### Configure the Switch

To configure the switch to use enhanced features:

1. Double click the **ProSafe Plus Utility** icon. The configuration home screen displays.
2. The configuration utility displays a list of enhanced switches it discovers on the local network. Select the switch you want to configure.
3. You will be asked to enter the password for the switch. The default is "password".
4. Enter the desired switch configuration. Refer to the *ProSafe® Plus Switch Configuration Utility User Guide* for a description of enhanced features. The user guide can be accessed by links on the Help tab of the utility or on the *Resource CD*.

# Specifications

Technical Specifications	
Standards compatibility	IEEE 802.3i 10BASE-T Ethernet, IEEE 802.3u 100BASE-TX Fast Ethernet, IEEE 802.3x Flow Control, IEEE 802.1p and TOS priority, WRR queuing with four queues
Network interface	RJ-45 connector for 10BASE-T, 100BASE-TX, or 1000BASE-T
Power Consumption	13.5W max
AC Power	100-240VAC 50-60Hz, 0.9A max.
Weight	1.73 Kg (3.79 lbs)
Dimensions (W x D x H)	330 mm x 173 mm x 43 mm 13 in x 6.8 in x 1.7 in
Operating temperature	0 to 40° C (32 to 104° F)
Operating humidity	10% to 90% relative humidity, non-condensing
Electromagnetic compliance	CE Class A, included EN55022 (CISPR 22) and EN55024, FCC part 15 Class A, VCCI Class A, C-Tick Class A, CCC
Power adapter safety agency approvals	CE mark, Commercial UL listed (UL 60950-1), C-Tick, CCC, CB

Performance Specifications	
Frame filter rate	14800 frames/sec max for 10M port; 148,800 frames/sec max for 100M; 1,488,000 frames/sec max for 1000M port
Frame forward rate	14,800 frames/sec max for 10M port; 148,800 frames/sec max for 100M port; 1,488,000 frames/sec max for 1000M port

Performance Specifications (continued)	
Network latency (using 64-byte packets)	1000 Mbps to 1000 Mbps: 6.0 µs max.
Address database size	up to 8K MAC addresses
MAC Address Learning	Automatically updated
Queue buffer	512 KB
NETGEAR Green features	<ul style="list-style-type: none"> <li>• Auto power-down mode saves energy when ports are unused</li> <li>• Power-saving per port if the cable length is less than 32.8 feet (10 meters)</li> </ul>

## Troubleshooting Tips

Problem	Action
Power light is not lit	<p>The switch has no power. Make sure that:</p> <ul style="list-style-type: none"> <li>• The power cord is properly connected to the switch.</li> <li>• The power cord is properly connected to a functioning power outlet. If it is in a power strip, make sure the power strip is turned on. If the socket is controlled by a light switch, make sure the switch is in the on position.</li> </ul>
Port number light is not lit for a connected device, or stays on continuously	<p>There is a hardware connection problem.</p> <ul style="list-style-type: none"> <li>• Make sure the cable connectors are securely plugged in at the switch and the device.</li> <li>• Make sure the connected device is turned on.</li> <li>• If the Ethernet cable is connected to a NIC or other Ethernet adapter, make sure the card or adapter is installed correctly and is working.</li> <li>• Make sure the cable is less than 328 feet (100 meters).</li> </ul>

# Technical Support

Thank you for selecting NETGEAR products.

After installing your device, locate the serial number on the label of your product and use it to register your product at <http://www.NETGEAR.com/register>. Registration is required before you can use the telephone support service. Registration via our website is strongly recommended.

Go to <http://kbserver.netgear.com> for product updates and Web support.

For additional information about setting up, configuring, and using your 5-port Enhanced Switch, see the *User Manual*.

For complete DoC please visit the NETGEAR EU Declarations of Conformity website at: [http://kb.netgear.com/app/answers/detail/a\\_id/11621/](http://kb.netgear.com/app/answers/detail/a_id/11621/)



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