

# Managed Layer 2 Switch with 2 Gigabit Ethernet Ports FSM726 Hardware Installation Guide

**NETGEAR®**

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This is to certify that the NETGEAR ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726 is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55024 Class A (CISPR 22).

### **EN 55 022 and EN 55 024 Statements**

This is to certify that the NETGEAR ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726 is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55024 Class A (CISPR 22).



**Warning:** This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take appropriate measures.

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Refer to the Support Information Card that shipped with your ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726.

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## Product and Publication Details

<b>Model Number:</b>	FSM726
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<b>Publication Version Number</b>	1.0

# About This Manual

The *NETGEAR® ProSafe® Managed Layer 2 Switch with 2 Gigabit Ethernet Ports FSM726 Hardware Installation Guide* describes how to install, configure and troubleshoot the ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726. The information in this manual is intended for readers with intermediate computer and Internet skills.

## Conventions, Formats, and Scope


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The conventions, formats, and scope of this manual are described in the following paragraphs:


- **Typographical Conventions.** This manual uses the following typographical conventions:

<i>Italic</i>	Emphasis, books, CDs, file and server names, extensions
<b>Bold</b>	User input, IP addresses, GUI screen text
<i>italic</i>	URL links

- **Formats.** This manual uses the following formats to highlight special messages:

	<b>Note:</b> This format is used to highlight information of importance or special interest.
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	<b>Tip:</b> This format is used to highlight a procedure that will save time or resources.
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	<b>Warning:</b> Ignoring this type of note might result in a malfunction or damage to the equipment.
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- **Scope.** This manual is written for the Managed Layer 2 Switch according to these specifications:

Product Version	ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726
Manual Publication Date	July 2009



**Note:** Product updates are available on the NETGEAR, Inc. website at <http://kbserver.netgear.com>.

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## Revision History

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<b>Part Number</b>	<b>Version Number</b>	<b>Date</b>	<b>Description</b>
202-10452-01	1.0	October 2008	Original publication.
202-10452-02	1.0	November 2008	
202-10452-03	1.0	July 2009	Changed model name





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# Chapter 1

## Introduction

The NETGEAR Managed Layer 2 Switch is a state-of-the-art, high-performance, IEEE-compliant network solution. It includes powerful management features that you can use to eliminate bottlenecks, boost performance, and increase productivity.

This guide describes the ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726. The switch can be free-standing, or rack-mounted in a wiring closet or an equipment room. For information about features for each product, see the NETGEAR website at <http://www.netgear.com>.

### Front Panel and LEDs

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The following figure shows the front panel of the switch chassis. It contains LEDs, RJ-45 jacks, and SFP module bays.

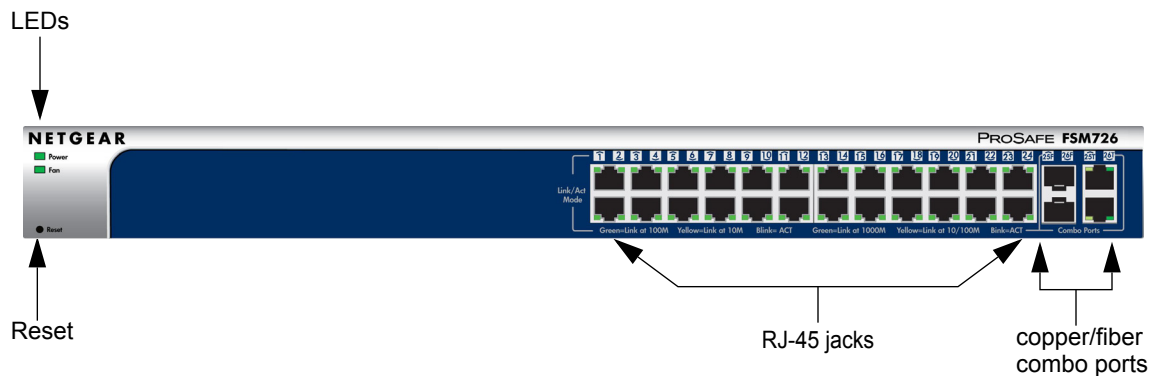


Figure 1

The following table describes the LEDs on the front panel of the switch.

**Table 1. LED Descriptions for FSM726**

LED	Description
PWR (Power)	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> Power is supplied and the switch is working.</li> <li>• <b>Blinking green.</b> Power-on self-test (POST) in progress.</li> <li>• <b>Solid yellow.</b> System is booting up.</li> <li>• <b>Blinking yellow.</b> POST, CPU, or power supply has failed</li> <li>• <b>Off.</b> Power is disconnected.</li> </ul>
FAN	<ul style="list-style-type: none"> <li>• <b>Yellow.</b> The fan has failed.</li> <li>• <b>Green.</b> The fan is operating normally.</li> </ul>
10/100 (port 1 to 24) (1 LED per port)	<p><b>Link/ACT LED</b></p> <ul style="list-style-type: none"> <li>• <b>Off.</b> No link is established on the port.</li> <li>• <b>Solid green.</b> A valid 100 Mbps link is established on the port.</li> <li>• <b>Blinking green.</b> The port is sending or receiving packets at 100M.</li> <li>• <b>Solid yellow.</b> A valid 10Mbps link is established on the port.</li> <li>• <b>Blinking yellow.</b> The port is sending or receiving packets at 10 Mbps.</li> </ul>
SFP ports (100/1000 Mbps)	<p><b>Link/ACT LED</b></p> <ul style="list-style-type: none"> <li>• <b>Off:</b> No link is established on this port.</li> <li>• <b>Solid green.</b> A valid 1000 Mbps SFP module link is established on the port.</li> <li>• <b>Blinking green.</b> The port is sending or receiving packets at 1000 Mbps.</li> <li>• <b>Solid Yellow.</b> A valid 100Mbps SFP module link is established on the port.</li> <li>• <b>Blinking Yellow.</b> The port is sending or receiving packets at 100 Mbps.</li> <li>• If port 25-26 media is changed to copper, the SFP LEDs changes to Off status.</li> </ul>
10/100/1000M ports (1 LED per port)	<p><b>Link/ACT LED</b></p> <ul style="list-style-type: none"> <li>• <b>Off.</b> No link is established on this port.</li> <li>• <b>Solid green.</b> A valid 1000 Mbps link is established on the port.</li> <li>• <b>Blinking green.</b> The port is sending or receiving packets at 1000 Mbps.</li> <li>• <b>Solid Yellow.</b> A valid 10/00Mbps link is established on the port.</li> <li>• <b>Blinking Yellow.</b> The port is sending or receiving packets at 10/100 Mbps.</li> <li>• If port 25-26 media is changed to fiber, the copper LEDs changes to Off status.</li> </ul>

## Rear Panel

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The rear panel has a console port and a standard AC power receptacle for the supplied power cord.



Figure 2

## Safety Instructions

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Use the following safety guidelines to ensure your own personal safety and to help protect your system from potential damage.

To reduce the risk of bodily injury, electrical shock, fire, and damage to the equipment, observe the following precautions:

- Observe and follow service markings.
  - Do not service any product except as explained in your system documentation.
  - Opening or removing covers that are marked with the triangular symbol with a lightning bolt could expose you to electrical shock. Only a trained service technician should service components inside these compartments.
- If any of the following conditions occur, unplug the product from the electrical outlet and replace the part, or contact your trained service provider:
  - The power cable, extension cable, or plug is damaged.
  - An object has fallen into the product.
  - The product has been exposed to water.
  - The product has been dropped or damaged.
  - The product does not operate correctly when you follow the operating instructions.
- Keep your system away from radiators and heat sources. Also, do not block cooling vents.
- Do not spill food or liquids on your system components, and never operate the product in a wet environment. If the system gets wet, contact your trained service provider.

- Do not push any objects into the openings of your system. Doing so could cause fire or electric shock by shorting out interior components.
- Use the product only with approved equipment.
- Allow the product to cool before removing covers or touching internal components.
- Operate the product only from the type of external power source indicated on the electrical ratings label. If you are not sure of the type of power source required, consult your service provider or local power company.
- To help avoid damaging your system, be sure that the voltage selection switch (if provided) on the power supply is set to match the power available at your location:
  - 115 volts (V), 60 hertz (Hz) in most of North and South America and some Far Eastern countries such as South Korea and Taiwan
  - 100 V, 50 Hz in eastern Japan and 100 V, 60 Hz in western Japan
  - 230 V, 50 Hz in most of Europe, the Middle East, and the Far East
- Also, be sure that attached devices are electrically rated to operate with the power available in your location.
- Use only approved power cables. If you have not been provided with a power cable for your system or for any AC powered option intended for your system, purchase a power cable that is approved for use in your country. The power cable must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cable should be greater than the ratings marked on the product.
- To help prevent electric shock, plug the system and peripheral power cables into properly grounded electrical outlets.
- The peripheral power cables are equipped with three-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable. If you must use an extension cable, use a three-wire cable with properly grounded plugs.
- Observe extension cable and power strip ratings. Make sure that the total ampere rating of all products plugged into the extension cable or power strip does not exceed 80 percent of the ampere ratings limit for the extension cable or power strip.
- To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Position system cables and power cables carefully; route cables so that they cannot be stepped on or tripped over. Be sure that nothing rests on any cables.

- Do not modify power cables or plugs. Consult a licensed electrician or your power company for site modifications.
- Always follow your local and national wiring rules.
- Move products with care; ensure that all casters and stabilizers are firmly connected to the system. Avoid sudden stops and uneven surfaces.





# Chapter 2

## Hardware Installation

This chapter explains how to install the hardware for the Managed Layer 2 Fast Ethernet Switch model FSM726.

### Package Contents

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The switch is packed and shipped separately. The package contains the following items:

- Managed Layer 2 Switch with preinstalled software
- Power adapter cord
- Rubber footpads for tabletop installation
- Rack-mounting kit
- Null-modem serial cable (RS-232) with 9-pin connectors
- *Resource CD*: The CD contains
  - MIB files
  - Documentation including the *Command Line Interface Reference for the ProSafe 7200 Series Layer-2 Switches*, the *Administration Manual for the 7200 Series Layer-2 Switches*, and this Hardware Installation Guide
- Warranty and Support Card

If you ordered SFP modules with your switch, they are provided in a separate package. If any item is missing or damaged, contact your place of purchase immediately.

## Protecting Against Electrostatic Discharge

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**Warning:** Static electricity can harm delicate components inside your system. To prevent static damage, discharge static electricity from your body before you touch any of the electronic components, such as the microprocessor. You can do so by periodically touching an unpainted metal surface on the switch.

You can also take the following steps to prevent damage from electrostatic discharge (ESD):

1. When unpacking a static-sensitive component from its shipping carton, leave it in the antistatic package until you are ready to install it. Just before unwrapping the antistatic package, discharge static electricity from your body.
2. Before moving a sensitive component, place it in an antistatic container or package.
3. Handle all sensitive components in a static-safe area. If possible, use antistatic floor pads, workbench pads, and an antistatic grounding strap.

## Unpacking the Hardware

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Check the contents of the boxes to make sure that all items are present before beginning the installation.

1. Place the container on a clean flat surface, and cut all straps securing the container.
2. Unpack the hardware from the boxes.

Carefully remove the hardware, and place it on a secure and clean surface. See [“Selecting a Location” on page 2-3](#).

3. Remove all packing material.
4. Make sure that all items are present. See [“Package Contents” on page 2-1](#).



**Note:** If any item is found missing or damaged, contact your local NETGEAR reseller for replacement.

5. Inspect the products and accessories for damage. Report any damage immediately.

## Installation

Install the equipment in the following sequence, as presented in this chapter:

1. Select a Location. See [“Selecting a Location.”](#)
2. Install the Switch. See [“Installing the Switch”](#) on page 2-4.
3. Check the installation. See [“Checking the Installation”](#) on page 2-5
4. Apply power, and check the LEDs. See [“Connecting to Power and Checking the LEDs”](#) on page 2-5.

### Selecting a Location

The switch can be mounted in a standard 19-inch (48.26-centimeter) rack, wall mounted, or left freestanding (placed on a tabletop). The site where you install the switch can affect its performance. Before installing the switch or switches, make sure that the chosen installation location meets the following site requirements.

**Table 2-1. Site Requirements for Switch Location**

Requirements	
Mounting	<ul style="list-style-type: none"> <li>• <b>Desktop installations.</b> Provide a flat table or shelf surface.</li> <li>• <b>Rack mounted installations.</b> Use a 19-inch (48.3-centimeter) EIA standard equipment rack that is grounded and physically secure. Use the rack mounting kit supplied with your switch.</li> </ul>
Access	Put the switch in a position that lets you access the front panel RJ-45 ports, view the front panel LEDs, and access the rear-panel power connector.
Power source	Provide a power source within 6 feet (1.8 meters) of the installation location. Power specifications for the switch are shown in <a href="#">Appendix A, “Factory Default Settings and Technical Specifications.”</a> Be sure that the AC outlet is not controlled by a wall switch, which can accidentally turn off power to the outlet and the switch.
Environment	Install the switch in a site free from strong electromagnetic field generators (such as motors), vibration, dust, and direct exposure to sunlight.
Temperature	The ambient switch operating temperature range is 23° to 122°F (–5° to 50°C). Keep the switch away from heat sources such as direct sunlight, warm-air exhausts, hot-air vents, and heaters.
Operating humidity	Install the switch in a dry area with a maximum relative humidity of 90%, noncondensing.
Ventilation	Do not restrict airflow by covering or obstructing air inlets on the sides of the switch. Keep at least 2 inches (5.08 centimeters) free on all sides for cooling. Be sure that there is adequate airflow in the room or wiring closet where you will install the switch.

**Table 2-1. Site Requirements for Switch Location (continued)**

Requirements	
Cabling	Route the cable to avoid sources of electrical noise such as radio transmitters, broadcast amplifiers, power lines, and fluorescent lighting fixtures.

## Installing the Switch

You can install the switch on a flat surface or in a standard 19-inch rack.

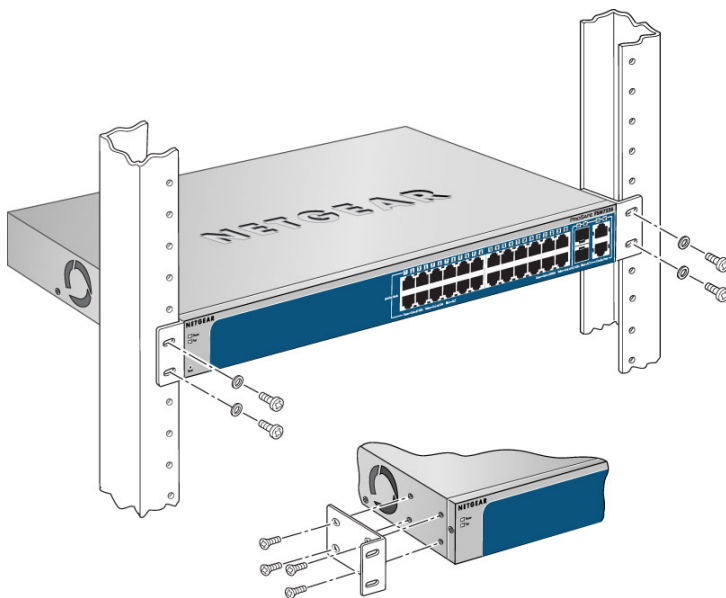
### Installing the Switch on a Flat Surface

The switch ships with four self-adhesive rubber footpads. Stick one rubber footpad on each of the four concave spaces on the bottom of the switch. The rubber footpads cushion the switch against shock and vibrations.

### Installing the Switch in a Rack

To install the switch in a rack, you need the 19-inch rack-mount kit supplied with your switch.

1. Attach the supplied mounting brackets to the side of the switch.
2. Use the provided Phillips head screws to fasten the brackets to the sides of the switch:



**Figure 2-1**

3. Tighten the screws with a No. 1 Phillips screwdriver to secure each bracket.
4. Align the bracket and rack holes. Use two pan-head screws with nylon washers to fasten each bracket and to the rack.
5. Tighten the screws with a No. 2 Phillips screwdriver to secure the switch in the rack.

## **Checking the Installation**

Before you apply power, perform the following checks:

1. Inspect the equipment thoroughly.
2. Verify that all cables are installed correctly.
3. Check cable routing to ensure that cables are not damaged and will not create a safety hazard.
4. Be sure that all equipment is mounted properly and securely.

## **Connecting to Power and Checking the LEDs**

The switch does not have an On/Off switch. The only way to apply or remove power is to connect or disconnect the power cord. Before you connect the power cord, select an AC outlet that is not controlled by a wall switch (which can turn off power to the switch).

After you select an appropriate outlet, follow these steps to apply AC power:

1. Connect one end of the AC power adapter cable to the rear of the switch, and the other end to a grounded three-pronged AC outlet.
2. Check the Power LED on the front panel of the switch. The LED should light up in the following sequence:
  - The LED turns yellow as the switch runs a power-on self-test (POST).
  - If the switch passes the test, the LED turns green and the switch is working and ready to pass data.
  - If the POST fails, the Power LED blinks yellow.

If the Power LED does not light up, check that the power cable is plugged in correctly and that the power source is good. For help with troubleshooting, see [Chapter 3](#), “[Troubleshooting](#).”

## SFP Modules

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The module bay accommodates a standard SFP module with an LC connector that is compatible with the IEEE 802.3z 1000BASE-X standard. SFP modules are sold separately. To install an SFP module insert the SFP module into the module bay. Press firmly to ensure that the module seats into the connector.

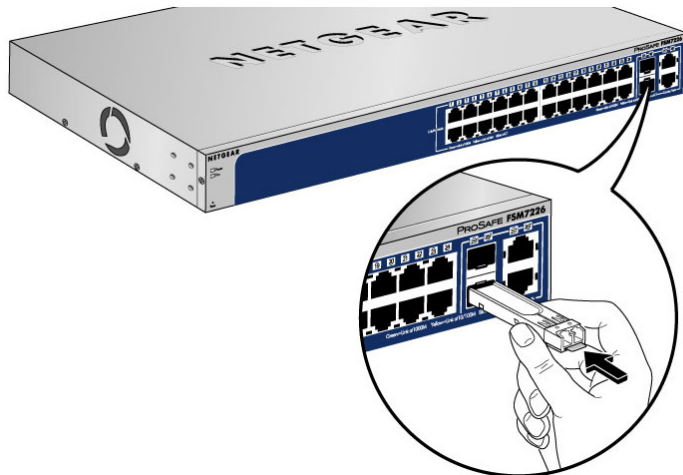


Figure 2-2

## Connecting Equipment to the Switch

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You can connect devices, an SPF Gigabit Ethernet module, and a console to the switch.

### RJ-45 Ports

The switch uses Auto Uplink technology, which enables you to attach devices using either straight-through or crossover cables. Use a Category 5 (Cat5) unshielded twisted-pair (UTP) cable terminated with an RJ-45 connector.



**Note:** Ethernet specifications limit the cable length between the switch and the attached device to 328 feet (100 meters).

## Connecting a Console to the Switch

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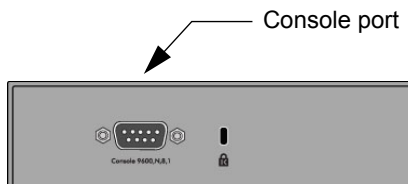
After you install the switch and apply power, you can connect to it with a terminal or workstation. You can use the Command Line Interface (CLI) to identify the IP address.

To use a console, you need the following items:

- VT100/ANSI terminal, a Windows PC, Apple Macintosh computer, or UNIX workstation.
- Null-modem cable with 9-pin connectors on each end (shipped with the product).

To connect a console to the switch:

1. Connect the null-modem cable to the console port of the switch.



**Figure 2-3**

2. Connect the other end of the cable to a workstation or terminal.
3. If you attached a workstation, start a terminal-emulation program.
  - Microsoft Windows users can use HyperTerminal, which comes with the Windows operating systems.
  - Macintosh users can use ZTerm.
  - UNIX users can use a terminal emulator such as TIP.
4. Configure the terminal-emulation program to use the following settings:
  - Baud rate: 9,600 bps
  - Data bits: 8
  - Parity: none
  - Stop bit: 1
  - Flow control: none

After you connect a console to the switch, you will need to configure the switch. The following documents are provided for this purpose:

- *Command Line Interface Reference for the ProSafe 7200 Series Layer-2 Switches*: Gives detailed examples of how to use the CLI, and is located on the *Resource CD*.
- *Administration Manual for the 7200 Series Layer-2 Switches*: Describes configuration tasks, and is located on the *Resource CD*.



# Chapter 3

## Troubleshooting

### Troubleshooting Chart

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The table below lists symptoms, causes, and solutions of possible problems.

**Table 3-1. Troubleshooting**

Problem	Cause	Solution
Power LED is off.	No power is received	Check the power cord connections for the switch at the switch and at the connected device. Make sure that all cables used are correct and comply with Ethernet specifications.
Link LED is off or intermittent.	Port connection is not working.	<ul style="list-style-type: none"><li>• Check the crimp on the connectors and make sure that the plug is correctly inserted and locked into the port at both the switch and the connecting device.</li><li>• Make sure that all cables used are correct and comply with Ethernet specifications. See <a href="#">Appendix A, "Factory Default Settings and Technical Specifications"</a>.</li><li>• Check for a defective adapter card, cable, or port by testing it in an alternate environment where all products are functioning.</li></ul>
File transfer is slow or performance degradation is a problem.	Half- or full-duplex setting on the switch and the connected device are not the same.	<ul style="list-style-type: none"><li>• Make sure that the attached device is set to auto-negotiation.</li><li>• Check the system message log.</li></ul>
A segment or device is not recognized as part of the network.	One or more devices are not properly connected, or cabling does not meet Ethernet guidelines.	Verify that the cabling is correct. Be sure that all connectors are securely positioned in the required ports. Equipment may have been accidentally disconnected.
ACT LED flashes on all connected ports and the network is disabled.	A network loop (redundant path) has been created.	Break the loop by ensuring that there is only one path from any networked device to any other networked device.

## Additional Troubleshooting Suggestions

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If the suggestions in [Table 3-1](#) do not resolve your problem, refer to the troubleshooting suggestions in this section.

- **Network Adapter Cards**

Make sure that the network adapter cards installed in the PCs are in working condition and the software driver has been installed.

- **Configuration**

If problems occur after you change the network configuration, restore the original connections. Then find the problem by making the changes, one step at a time. Make sure that cable distances, repeater limits, and other physical aspects of the installation do not exceed the Ethernet limitations.

- **Switch Integrity**

You can verify the integrity of the switch by resetting the switch. To reset the switch, use the Tools> Reset command or remove AC power from the switch and then reapply AC power. If the problem continues, contact NETGEAR technical support. See the Support Information Card that shipped with your product.

- **Auto-Negotiation**

The 10/100/1000 Mbps ports negotiate the correct duplex mode and speed if the device at the other end of the link supports auto-negotiation. If the device does not support auto-negotiation, the switch only determines the speed correctly and the duplex mode defaults to half-duplex.

The gigabit port on the gigabit module negotiates speed, duplex mode, and flow control, provided that the attached device supports auto-negotiation.

# Appendix A

## Factory Default Settings and Technical Specifications

This appendix provides technical specifications for the switches.

### Factory Default Settings

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The following table shows the default settings for the ProSafe 24-Port Ethernet L2 Managed Switch Model FSM726.

**Table A-1. Default Configuration Settings**

Features	Default Setting
Port speed	Auto-negotiation
Port duplex	Auto-negotiation
Flow control (half duplex)	Enabled
Flow control (full duplex)	Disabled
Broadcast storm control	Enabled
Gigabit port type	Auto-detect
Management IP configuration	DHCP
Password protection	Disabled
User name	Admin
Password	(none)
Web access	Enabled
Java mode	Enabled
VLAN	All ports belong to VLAN 1 (default VLAN) as untagged ports
IP multicast filtering	Disabled
Spanning Tree Protocol	Enabled (IEEE 802.1w)
Admin edge port	Enabled
Link aggregation	Disabled

**Table A-1. Default Configuration Settings (continued)**

Features	Default Setting
Port mirroring	Disabled
Traffic prioritization	Disabled
ACL	Disabled
GVRP	Disabled
GMRP	Disabled
MAC address aging	300 seconds
SNMP community	Public (read-only access), private (read/write access)
VLAN Ingress filtering	Enabled

## Technical Specifications

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**Table A-2. Technical Specifications**

Feature	Description
IEEE network protocol and standards compatibility	<ul style="list-style-type: none"> <li>• 802.3 10BASE-T</li> <li>• 802.3u 100BASE-TX</li> <li>• 802.3z 1000BASE-SX</li> <li>• 802.3ab 1000BASE-T</li> <li>• 802.3x flow control</li> </ul>
Interface (Auto Uplink on all RJ-45 ports)	<ul style="list-style-type: none"> <li>• 24 RJ-45 connectors for 10BASE-T and 100BASE-TX</li> <li>• 2 Gigabit Interface converter (SFP) slots for SFP modules</li> <li>• 2 RJ45 ports for 10BaseT, 100BaseT, and 1000BaseT</li> <li>• RS-232 console port</li> </ul>
Performance	<ul style="list-style-type: none"> <li>• Forwarding modes: store-and-forward</li> <li>• Bandwidth: 8.8Gbps</li> <li>• Network latency: Less than 15 microseconds for 64 byte frames in store and forward mode for 100 Mbps to 100 Mbps transimission</li> </ul>
Address database size	16K media access control (MAC) addresses per system
Addressing	48-bit MAC address
10/100/1000 buffer memory	1-MB embedded memory
Acoustic noise (ANSI-S10.12)	36.6 dB
Heat dissipation	50 BTU/hr.
Mean time between failure (MTBF)	562,110 hours (~ 64.2 years)

**Table A-2. Technical Specifications (continued)**

Feature (continued)	Description
Power consumption	15 W maximum 100–240 VAC, 50–60 Hz universal input
Dimensions (W x D x H)	17.32 x 8.1 x 1.70 in (440 x 205 x 43.2 mm)
Weight	6.15 lbs. (2.79 kg)
Management	<ul style="list-style-type: none"> <li>• 802.1Q Static VLAN (up to 4K VLAN ID)</li> <li>• 802.1p Class of Service (CoS)</li> <li>• 802.1D Spanning Tree Protocol (STP)</li> <li>• 802.1w Rapid Spanning Tree Protocol (RSTP)</li> <li>• 802.1s Multiple Spanning Tree Protocol (MSTP)</li> <li>• 802.3ad Link Aggregation (LACP)</li> <li>• IGMP v1, v2 snooping support</li> <li>• Port mirroring support</li> <li>• SNMP v3</li> <li>• RFC1757</li> <li>• RMON 1 groups 1, 2, 3, and 9</li> <li>• RFC1213 MIB II</li> <li>• RFC1643 Ethernet interface MIB</li> <li>• RFC1493 bridge MIB</li> <li>• RFC2131 DHCP client (and BOOTP)</li> <li>• RFC2138 RADIUS client</li> <li>• Broadcast storm control</li> <li>• Private enterprise MIB</li> <li>• LLDP/LLDP MED</li> <li>• SSH/SSL</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• Operating temperature: 23° to 122°F (–5° to 50°C)</li> <li>• Storage temperature: –4° to 158°F (–20° to 70°C)</li> <li>• Operating humidity: 90% maximum relative humidity, noncondensing</li> <li>• Storage humidity: 95% maximum relative humidity, noncondensing</li> <li>• Operating altitude: 10,000 ft. (3,000 m) maximum</li> <li>• Storage altitude: 10,000 ft. (3,000 m) maximum</li> </ul>
Electromagnetic emissions and immunity	<ul style="list-style-type: none"> <li>• CE mark, commercial</li> <li>• FCC Part 15 Class A VCCI</li> <li>• Class A EN 55022 (CISPR 22)</li> <li>• Class A C-Tick MIC</li> <li>• EN 55024</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• CE mark, commercial</li> <li>• UL listed</li> </ul>

