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› NETGEAR ProSAFE M5300 24-Port SFP Gigabit L3 Managed Stackable Switch (GSM7328FS-200NES) User Manual

NETGEAR GSM7328FS-200NES

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INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your NETGEAR ProSAFE M5300 24-Port SFP Gigabit L3 Managed Stackable Switch, model GSM7328FS-200NES. Please read this manual thoroughly before using the device to ensure proper setup and functionality.

SAFETY INFORMATION

- Ensure the power supply voltage matches the rating specified on the switch.
- Do not block ventilation openings. Maintain adequate airflow around the device.
- Avoid placing the switch in direct sunlight, near heat sources, or in areas with excessive moisture.
- Use only the power cord provided with the device.
- Disconnect power before cleaning or performing any maintenance.

PACKAGE CONTENTS

Verify that your package contains the following items:

- NETGEAR ProSAFE M5300 series switch (GSM7328FS-200NES)
- Power cord
- Rubber footpads for tabletop installation
- Rubber caps for the SFP and SFP+ sockets
- Rack-mounting kit
- Mini-USB to USB cable for console connection
- Resource CD

PHYSICAL DESCRIPTION



Front view of the NETGEAR ProSAFE M5300 switch, showing 24 SFP ports, 2 SFP+ ports, and management interfaces.

The NETGEAR ProSAFE M5300 switch features a robust design suitable for various network environments. The front panel includes 24 SFP (Small Form-Factor Pluggable) ports for 1 Gigabit fiber connectivity, along with 2 SFP+ ports for 10 Gigabit fiber uplinks. Additionally, there are 4 Gigabit Ethernet ports (shared with SFP ports) and 2 10G Ethernet ports (shared with SFP+ ports) for copper connections. Status LEDs indicate power, link activity, and port speed. The rear panel typically houses the power input and cooling fans.

SETUP

1. Mounting Options

- **Desktop Placement:** Attach the provided rubber footpads to the bottom of the switch and place it on a stable, flat surface with adequate ventilation.
- **Rackmount Installation:** Use the included rack-mounting kit to secure the switch into a standard 19-inch equipment rack. Ensure proper airflow within the rack.

2. Connecting Power

1. Connect the provided power cord to the power input on the rear of the switch.
2. Plug the other end of the power cord into a grounded electrical outlet.
3. The power LED on the front panel should illuminate, indicating the switch is receiving power.

3. Network Connections

- **SFP/SFP+ Ports:** Insert compatible SFP or SFP+ transceivers into the respective ports. Connect fiber optic cables from the transceivers to your network devices.

- **Gigabit Ethernet Ports:** Connect standard RJ-45 Ethernet cables to the Gigabit ports for copper-based network devices.

4. Initial Configuration Access

The switch can be configured via a web-based graphical user interface (GUI) or through a command-line interface (CLI) using the console port. Refer to the detailed software manual on the resource CD for initial IP address and login credentials.

OPERATING

The NETGEAR ProSAFE M5300 is a fully managed Layer 3 switch, offering advanced features for network control and optimization.

Management Interface

Access the switch's management interface via a web browser or the console port. The GUI provides a comprehensive dashboard for monitoring and configuring all switch functions, including VLANs, routing protocols, QoS, and security settings.

Stacking Connectivity

This switch supports stacking, allowing multiple switches to operate as a single logical unit. This simplifies management and increases network resilience and scalability. Consult the advanced configuration guide for detailed stacking procedures.

Key Features

- **Layer 3 Management:** Supports static and dynamic routing protocols for efficient data forwarding across different subnets.
- **10 Gigabit SFP+ Ports:** Provides high-speed uplinks for connecting to core network devices or servers.
- **Integrated Security:** Features like Access Control Lists (ACLs) and port security enhance network protection.
- **High Availability:** Redundant power supply options and stacking capabilities ensure continuous network operation.

MAINTENANCE

Firmware Updates

Regularly check the NETGEAR support website for the latest firmware updates. Applying updates can improve performance, add new features, and address security vulnerabilities. Follow the instructions provided with each firmware release carefully.

Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and debris to prevent overheating. Do not use liquid or aerosol cleaners directly on the device.

TROUBLESHOOTING

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

- **No Power:** Check the power cord connection to both the switch and the electrical outlet. Verify the outlet is functional.
- **No Link Light:** Ensure network cables are securely connected to both the switch port and the connected device. Verify the connected device is powered on and functioning correctly. Check for compatible SFP/SFP+ transceivers.
- **Network Connectivity Issues:** Confirm IP address settings, VLAN configurations, and routing tables through the management interface.
- **Slow Performance:** Check for network congestion, duplex mismatches, or faulty cables.

For more complex issues, consult the comprehensive troubleshooting guide available on the NETGEAR support website or contact technical support.

SPECIFICATIONS

Feature	Description
Brand	NETGEAR
Model Number	GSM7328FS-200NES
Number of Ports	24 x 1G SFP, 2 x 10G SFP+, 4 x Gigabit Ethernet (shared), 2 x 10G Ethernet (shared)
Interface	SFP, SFP+, RJ-45
Data Transfer Rate	10 Gigabits Per Second (max)
Management	L3 Managed
Mounting Options	Desktop, Rackmount
Item Weight	18.27 Pounds
Energy Efficiency	IEEE802.3az Energy Efficient Ethernet mode compliant (most models)

WARRANTY AND SUPPORT

Your NETGEAR ProSAFE M5300 switch is covered by an industry-best **Lifetime Limited Hardware Warranty**. This warranty provides peace of mind regarding the product's reliability and quality.

In addition to the hardware warranty, NETGEAR offers **Next Business Day Replacement** for eligible products, ensuring minimal downtime in case of a hardware issue. You also have access to **24/7 chat with a NETGEAR expert** for technical assistance and support.

For detailed warranty terms, product registration, and to access support resources, please visit the official NETGEAR support website.