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VIMIN VM-GS1620

VIMIN VM-GS1620 18-Port Gigabit Ethernet Switch User Manual

Model: VM-GS1620

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VIMIN VM-GS1620 18-Port Gigabit Ethernet Switch. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The VIMIN VM-GS1620 is an unmanaged 18-port Gigabit Ethernet switch designed for high-speed network expansion. It features 16 Gigabit Ethernet ports (10/100/1000 Mbps) and 2 dedicated 1000Mbps uplink ports. The switch supports IEEE802.3af/at standards and includes a One Key VLAN function for enhanced network security and bandwidth management. Its durable metal housing allows for versatile desktop or rack-mount installation.

2.1 Front and Rear Panels



Figure 1: Front and Rear Panels of the VIMIN VM-GS1620 Switch. The front panel displays 16 Gigabit ports (1-16), 2 Uplink ports (17-18), LED indicators for Power and Data, and a VLAN switch. The rear panel shows the AC power input.

Front Panel Features:

- **Ports 1-16:** 10/100/1000 Mbps Gigabit Ethernet ports for connecting network devices.
- **Ports 17-18 (Uplink):** Dedicated 1000 Mbps Gigabit uplink ports for connecting to a router or main network.
- **Power LED:** Indicates power status.
- **Data/Link/Act LEDs:** Indicate data activity and link status for each port.
- **VLAN Switch:** Toggles the One Key VLAN function on or off.

Rear Panel Features:

- **AC Power Input:** Connects to the provided power cord (AC/IN 100-240V).

2.2 Key Features

- **High-Speed Connectivity:** 16 Gigabit Ethernet ports and 2 Gigabit uplink ports for fast data transfer.
- **One Key VLAN:** Enhances network security by isolating ports 1-16 while allowing communication with uplink ports.
- **Robust Protection:** Features 4KV lightning protection for device and network safety.
- **Durable Design:** Sturdy metal housing ensures longevity and efficient heat dissipation.
- **Fanless Operation:** Provides quiet operation, suitable for various environments.
- **Plug and Play:** No complex configuration required for basic network setup.

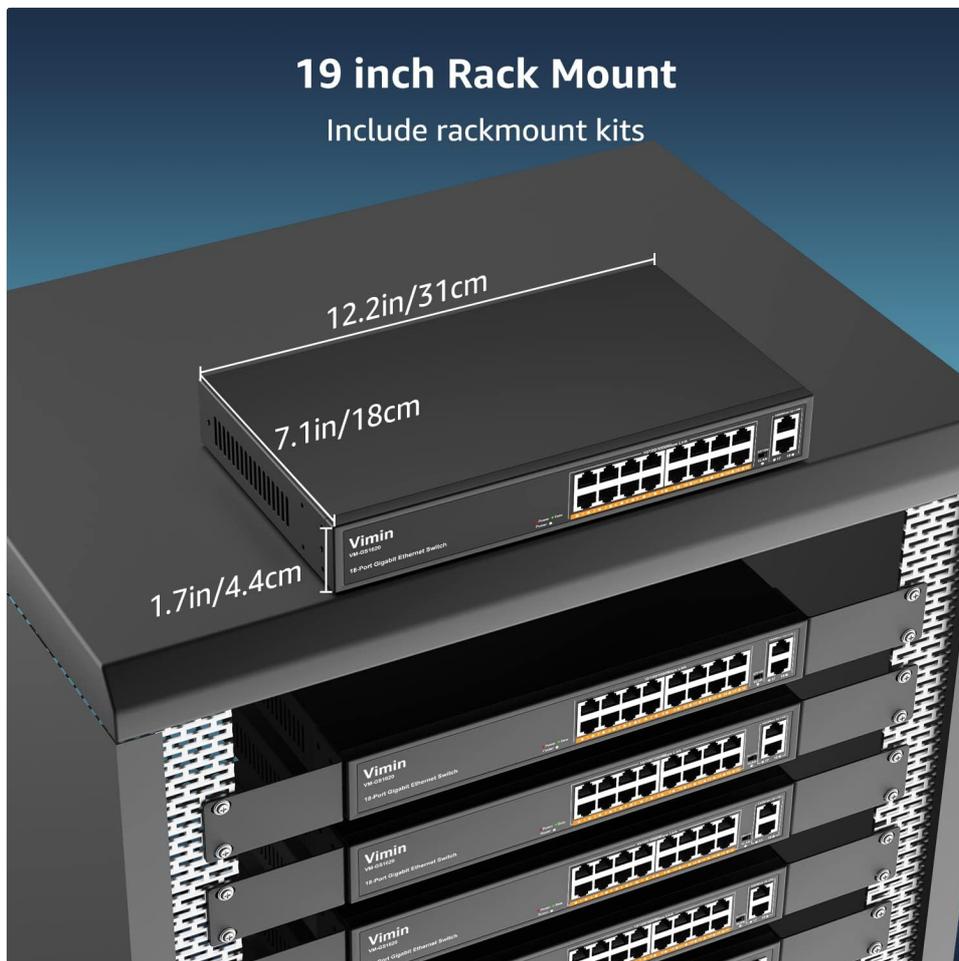


Figure 2: The VIMIN VM-GS1620 features a fanless, quiet design within a durable metal case for reliable performance.

3. PACKAGE CONTENTS

Please verify the contents of your package. If any items are missing or damaged, contact VIMIN support immediately.

- VIMIN VM-GS1620 18-Port Gigabit Ethernet Switch
- AC Power Cord
- Rack-Mount Kits (for 19-inch rack installation)
- User Manual (this document)

4. SETUP INSTRUCTIONS

4.1 Physical Installation

The VIMIN VM-GS1620 switch can be installed on a desktop or mounted in a 19-inch rack.

Desktop Placement:

- Place the switch on a flat, stable surface.
- Ensure adequate ventilation around the device. Do not block the ventilation holes.
- Keep the switch away from heat sources, direct sunlight, and excessive moisture.

Rack-Mount Installation:

- Attach the provided rack-mount brackets to the sides of the switch using the included screws.

- Secure the switch into a standard 19-inch equipment rack using appropriate rack screws (not included).
- Ensure proper airflow within the rack to prevent overheating.



Figure 3: The VIMIN VM-GS1620 switch can be installed in a 19-inch rack using the included rack-mount kits. Dimensions are approximately 12.2in (31cm) wide, 7.1in (18cm) deep, and 1.7in (4.4cm) high.

4.2 Power Connection

1. Connect one end of the AC power cord to the power input on the rear panel of the switch.
2. Plug the other end of the power cord into a standard electrical outlet (AC 100-240V).
3. The Power LED on the front panel should illuminate, indicating the switch is receiving power.

4.3 Network Connections

The VIMIN VM-GS1620 is a Plug and Play device, requiring no software configuration for basic operation.

1. Connect your network devices (e.g., computers, printers, IP cameras, access points) to any of the **Gigabit Ports 1-16** using standard Ethernet cables.
2. Connect your router or main network backbone to one of the **Uplink Ports 17-18**.
3. Once a device is connected and powered on, the corresponding Link/Act LED for that port will illuminate, indicating a successful connection and activity.



Figure 4: Simple Plug and Play connection. Insert an Ethernet cable into any available port.

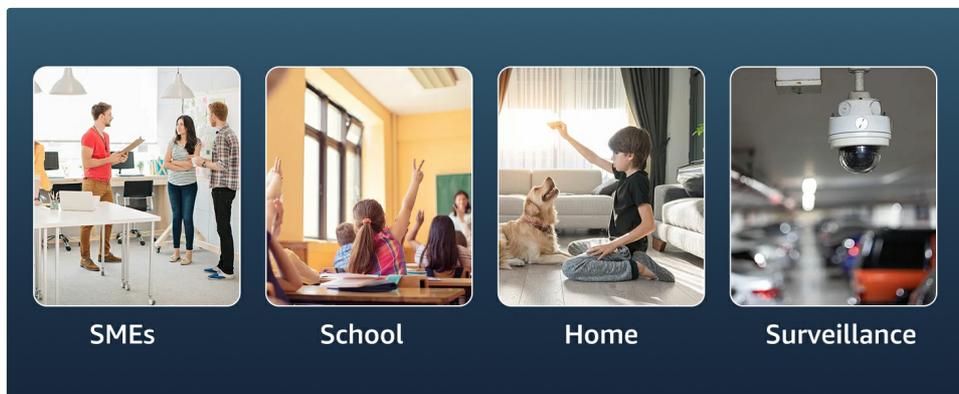


Figure 5: Connection diagram illustrating power connection, device connections to the switch, and the resulting network functionality.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

Once the switch is powered on and devices are connected, the VIMIN VM-GS1620 operates automatically. It functions as an unmanaged switch, forwarding data packets between connected devices at Gigabit speeds without requiring any user configuration.

5.2 One Key VLAN Mode

The switch features a physical VLAN switch on the front panel. This function allows you to quickly enable or disable VLAN isolation.

- **VLAN OFF (Default):** All ports (1-18) operate as a standard switch, allowing all connected devices to communicate with each other.
- **VLAN ON:** When the VLAN switch is set to ON, ports 1-16 are isolated from each other. Devices connected to ports 1-16 can only communicate with the uplink ports (17-18) and not directly with other devices on ports 1-16. This enhances network security and can improve bandwidth utilization by preventing broadcast storms within the isolated segments.

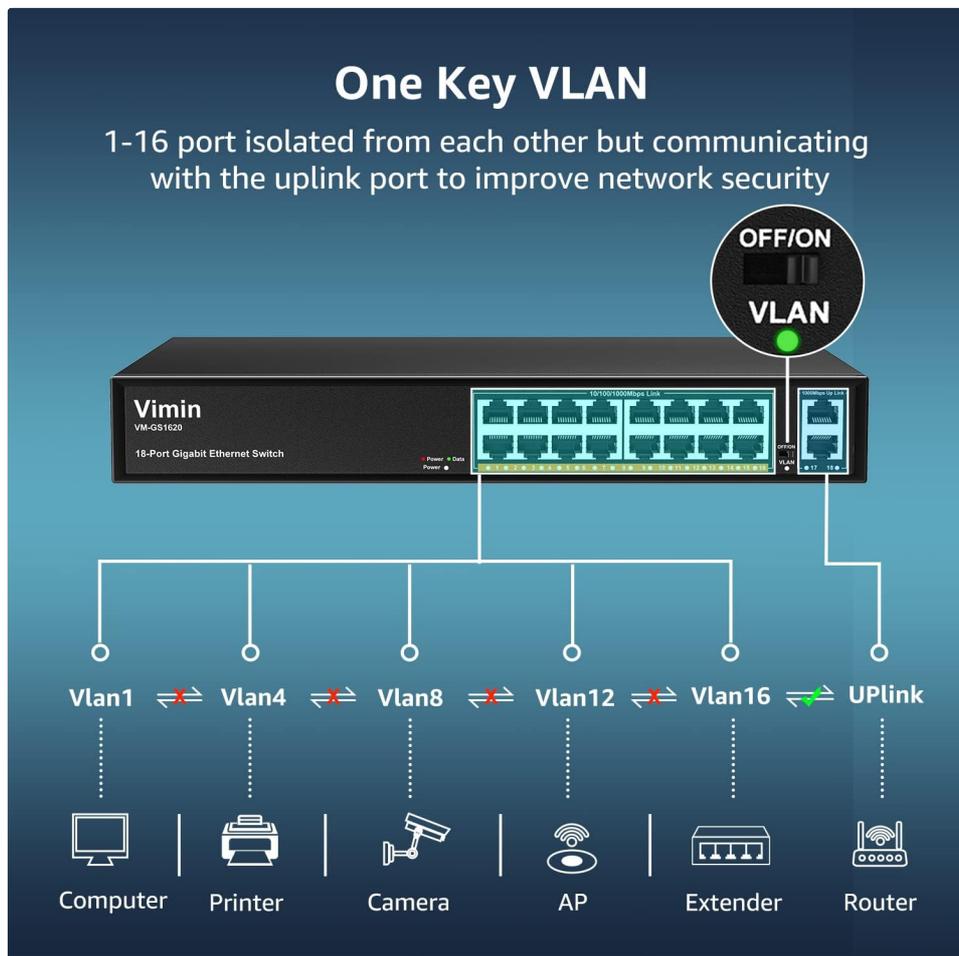


Figure 6: The One Key VLAN switch isolates ports 1-16 from each other, allowing them to communicate only with the uplink ports (17-18). This setup is useful for segmenting a network for security or performance.

6. MAINTENANCE

The VIMIN VM-GS1620 switch is designed for minimal maintenance. Follow these guidelines to 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 holes are not obstructed to allow for proper heat dissipation.
- **Environment:** Operate the switch within its specified environmental conditions (temperature, humidity).
- **Cable Management:** Keep network cables organized and free from kinks or excessive bends to prevent signal degradation.

7. TROUBLESHOOTING

If you encounter issues with your VIMIN VM-GS1620 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 functional.
 - Ensure the Power LED on the front panel is illuminated.
- **No Link/Activity on a Port:**
 - Ensure the Ethernet cable is securely connected to both the switch port and the connected device.
 - Try a different Ethernet cable to rule out a faulty cable.
 - Connect the device to a different port on the switch.
 - Verify that the connected device is powered on and functioning correctly.
- **Slow Network Speed:**
 - Ensure all connected devices and cables support Gigabit Ethernet (Cat5e or higher).
 - Check for excessive network traffic or bandwidth-intensive applications.
 - Consider enabling VLAN mode if network segmentation is desired to reduce broadcast domains.
- **Devices Cannot Communicate (VLAN ON):**
 - If the VLAN switch is ON, devices on ports 1-16 are isolated from each other and can only communicate with uplink ports. This is expected behavior.
 - If you require direct communication between all devices, ensure the VLAN switch is set to OFF.

If the problem persists after trying these steps, please contact VIMIN technical support.

8. SPECIFICATIONS

Feature	Description
Model	VM-GS1620
Ports	16 x 10/100/1000Mbps RJ45 Ports, 2 x 1000Mbps Uplink RJ45 Ports
Data Transfer Rate	1000 Megabits Per Second (Gigabit)
Switching Capacity	36 Gbps
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3af/at
VLAN Support	One Key VLAN (Port Isolation)
Lightning Protection	4KV
Power Input	AC 100-240V
Case Material	Metal
Installation	Desktop, 19-inch Rack-Mount
Dimensions (Device)	Approx. 12.2 x 7.1 x 1.7 inches (31 x 18 x 4.4 cm)
Item Weight	3.85 pounds (1.75 kg)
Compatible Devices	Desktop, Gaming Console, Laptop, Printer, IP Camera, Access Point

9. WARRANTY AND SUPPORT

VIMIN stands behind the quality and reliability of its products.

9.1 Warranty Information

This VIMIN VM-GS1620 switch comes with a **one-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9.2 Technical Support

VIMIN provides **lifetime technical support** for this product. If you have any questions, require assistance with installation, or encounter any issues not covered in the troubleshooting section, please contact our professional technical team.



Figure 7: VIMIN offers dedicated customer support.

Contact Information:

- **Email:** support@vimintech.com
- Our support team is available to provide 24-hour high-quality service.