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ZYXEL GS1900-16

Zyxel GS1900-16 16-Port Gigabit Smart Managed Switch User Manual

Model: GS1900-16 | Brand: Zyxel

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Zyxel GS1900-16 16-Port Gigabit Smart Managed Switch. Please read this manual thoroughly before using the device to ensure proper setup and functionality.

The Zyxel GS1900-16 is a 16-port Gigabit Ethernet Smart Managed Switch designed for small and medium businesses. It offers high-speed networking performance, advanced management features, and a fanless design for quiet operation.



Figure 1.1: Zyxel GS1900 Series Switches with Fanless Design. This image highlights the silent operation feature of the switch.

2. PACKAGE CONTENTS

Verify the following items are included in your product package:

- Zyxel GS1900-16 16-Port Gigabit Smart Managed Switch
- Power Adapter/Cord

- Rackmount Kit (if applicable)
- Quick Start Guide
- Safety Warnings and Regulatory Notices

Note: If any item is missing or damaged, please contact your vendor immediately.

3. PHYSICAL DESCRIPTION

3.1 Front Panel

The front panel of the Zyxel GS1900-16 features 16 Gigabit Ethernet ports and LED indicators for power, link status, and activity for each port.



Figure 3.1: Front Panel of Zyxel GS1900-16 Switch. This image displays the 16 Gigabit Ethernet ports and their corresponding LED indicators.

3.2 Rear Panel

The rear panel typically includes the power input connector and possibly a grounding screw.

3.3 Dimensions

The physical dimensions of the device are approximately 8.5 inches (L) x 5.24 inches (W) x 1.65 inches (H). The compact design allows for desktop placement or rack mounting.

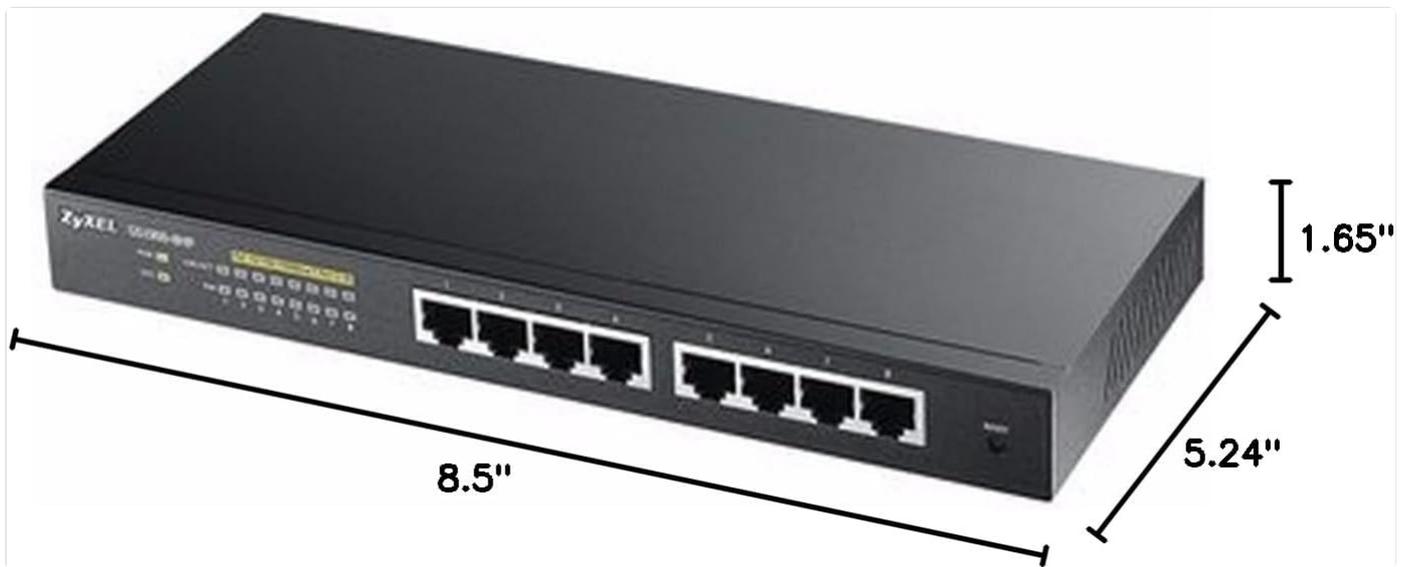


Figure 3.2: Zyxel GS1900 Series Switch Dimensions. This image illustrates the compact size of the switch, suitable for various installations.

4. SETUP

4.1 Placement

- Place the switch on a flat, stable surface or mount it in a standard 19-inch equipment rack using the provided kit.
- Ensure adequate ventilation around the device. Avoid placing it near heat sources or in enclosed spaces.
- Maintain a clear space around the ventilation openings.

4.2 Power Connection

1. Connect the power cord to the power input on the rear panel of the switch.
2. Plug the other end of the power cord into a suitable electrical outlet (AC 100-240V, 50/60 Hz).
3. Verify the power LED on the front panel illuminates, indicating the device is receiving power.

4.3 Network Connection

1. Connect Ethernet cables from your network devices (computers, servers, routers, etc.) to any of the 16 Gigabit Ethernet ports on the front panel.
2. Observe the link/activity LEDs for each connected port. A solid green or amber light indicates a successful link, and a blinking light indicates data activity.

4.4 Initial Configuration (Web-based Management)

The Zyxel GS1900-16 is a Smart Managed Switch, configurable via a web-based interface.

1. Connect a computer directly to any port on the switch using an Ethernet cable.
2. Configure your computer's IP address to be in the same subnet as the switch's default IP address (e.g., if the switch's default IP is 192.168.1.1, set your computer to 192.168.1.10 with a subnet mask of 255.255.255.0). Refer to the Quick Start Guide for the default IP address.
3. Open a web browser and enter the switch's default IP address in the URL bar.
4. Log in using the default username and password (refer to the Quick Start Guide or product documentation for default credentials).
5. Follow the on-screen setup wizard to change the default IP address, set a new password, and configure basic network settings.

Need Set-up Guidance? Use Our Wizard

This switch comes with a user-friendly web-based wizard that walks you through setup, configuration and even advanced settings quickly. You'll be up and running in just minutes.



Figure 4.1: Web-based Management Interface. This image shows the graphical user interface for configuring the switch.

Non-blocking Blocking Bandwidth up to

1G

/Port



Near Silent Operation

No disturbing fan
noises while working.



Free ZON Utility

A unified
installation tool.



Smart Management

Manage advanced features
easily through web interface.



Figure 4.2: Seamless Connectivity. This image demonstrates how the switch integrates into a network with other devices.

5. OPERATING THE SWITCH

Once configured, the Zyxel GS1900-16 operates automatically as a network switch. For advanced features, access the web management interface.

5.1 Basic Network Functionality

- The switch provides full Gigabit speed (1000 Mbps) to all connected devices, ensuring high-speed data transfer.
- It supports auto-negotiation for speed and duplex mode, and auto MDI/MDIX for cable type detection.

5.2 Advanced Features

The Smart Managed capabilities allow for configuration of various advanced network features:

- **VLAN (Virtual Local Area Network):** Segment your network for improved security and performance.
- **QoS (Quality of Service):** Prioritize network traffic for critical applications like voice or video.
- **IGMP Snooping:** Optimize multicast traffic delivery, useful for IPTV.
- **Link Aggregation (LAG):** Combine multiple ports to increase bandwidth and provide redundancy.
- **IPv6 Support:** Future-proof your network with support for the latest internet protocol.

- **DoS Prevention:** Protect your network from Denial of Service attacks.

Detailed configuration instructions for these features are available in the comprehensive user manual, which can be downloaded from the Zyxel support website.

6. MAINTENANCE

6.1 Firmware Updates

Regularly check the Zyxel support website for firmware updates. Firmware updates can provide new features, performance improvements, and security patches.

1. Download the latest firmware file from the official Zyxel website.
2. Access the switch's web management interface.
3. Navigate to the firmware upgrade section (usually under System or Maintenance).
4. Upload the downloaded firmware file and follow the on-screen instructions. Do not power off the device during the update process.

6.2 Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the switch.
- Do not use liquid cleaners or aerosol sprays directly on the device.
- Keep ventilation openings clear of dust and debris.

6.3 Configuration Backup

It is recommended to regularly back up your switch's configuration settings. This allows for quick restoration in case of accidental changes or device replacement.

1. Access the switch's web management interface.
2. Navigate to the configuration management section (often under Maintenance or System).
3. Select the option to back up or save the current configuration to your computer.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power LED indication	Power cord not connected; Power outlet faulty; Power adapter faulty.	Ensure power cord is securely connected. Test the power outlet. Contact support if power adapter is suspected faulty.
No Link/Activity LED for a connected device	Ethernet cable faulty or disconnected; Device not powered on; Incorrect port settings (unlikely for default setup).	Check cable connections. Try a different Ethernet cable. Ensure the connected device is powered on and functioning.
Cannot access web management interface	Incorrect IP address settings on computer; Switch IP address changed; Browser issues (e.g., ad blockers).	Verify computer's IP address is in the same subnet as the switch. Try resetting the switch to factory defaults (refer to manual). Disable browser extensions.

Problem	Possible Cause	Solution
Slow network performance	Cable issues; Network congestion; Device limitations.	Ensure all cables are Gigabit-rated (Cat5e or higher). Check for excessive network traffic. Verify connected devices are capable of Gigabit speeds.

For further assistance, refer to the full user manual or contact Zyxel technical support.

8. SPECIFICATIONS

Model	GS1900-16
Number of Ports	16 x Gigabit Ethernet (RJ45)
Data Transfer Rate	10/100/1000 Mbps (Gigabit)
Interface Type	RJ45
Switching Capacity	32 Gbps (non-blocking)
Power Input	AC 100-240V, 50/60 Hz
Max. Power Consumption	10.5 W
Dimensions (LxWxH)	8.5" x 5.24" x 1.65" (216 x 133 x 42 mm)
Item Weight	2.1 lbs (0.95 kg)
Cooling	Fanless
Management	Web-based Smart Management
Advanced Features	VLAN, QoS, IGMP Snooping, Link Aggregation, IPv6, DoS Prevention

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The Zyxel GS1900-16 switch comes with a [Lifetime Hardware Warranty](#). This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please visit the official Zyxel website.

9.2 Technical Support

Zyxel provides [free technical support](#) and [free firmware upgrades](#) for the lifetime of the product.

- **Online Support:** Visit the Zyxel support portal for FAQs, documentation, and driver downloads.
- **Contact Support:** Refer to the Zyxel website for regional contact information (phone, email, chat).

When contacting support, please have your product model (GS1900-16) and serial number ready.

