D-Link DGS-1210-48

D-Link DGS-1210-48 48-Port Gigabit Smart Switch User Manual

Model: DGS-1210-48 | Brand: D-Link

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of the D-Link DGS-1210-48 48-Port Gigabit Smart Switch. This device is a web-managed switch designed for small to medium-sized businesses, offering advanced management features and high-performance connectivity.

2. PRODUCT FEATURES

- 48 Gigabit Ethernet ports for high-speed network connectivity.

- 4 Combo SFP ports for flexible fiber optic uplink connections.

- Web-based management interface for easy configuration and monitoring.

- Advanced Layer 2 features including VLANs, QoS, and Link Aggregation.

- D-Link Green technology for energy efficiency.

- Switching capacity of 96 Gbps.

- MAC Address Table Size: 8K.

- Packet Forwarding Rate: 71.4 Mpps.

3. PACKAGE CONTENTS

Verify the following items are included in your package:

- D-Link DGS-1210-48 48-Port Gigabit Smart Switch

- Power Cord

- Rackmount Kit (brackets and screws)

- Rubber Feet (for desktop installation)

- Quick Installation Guide

- CD-ROM with Manual and Software

If any items are missing or damaged, please contact your local D-Link reseller for assistance.

4. PHYSICAL DESCRIPTION

4.1 Front Panel

Figure 4.1: Front Panel of DGS-1210-48 Switch. This image displays the front of the D-Link DGS-1210-48 switch, featuring 48 RJ45 Gigabit Ethernet ports and 4 SFP (Small Form-Factor Pluggable) ports, along with LED indicators for power, system status, and port activity.

The front panel of the DGS-1210-48 switch features 48 10/100/1000BASE-T Gigabit Ethernet ports for connecting network devices. Additionally, there are 4 Combo SFP ports, which can be used for fiber optic uplinks by inserting compatible SFP transceivers. LED indicators provide visual status for power, system activity, and individual port link/activity.

4.2 Rear Panel

Figure 4.2: Rear Panel of DGS-1210-48 Switch. This image shows the rear panel of the D-Link DGS-1210-48 switch, highlighting the AC power input connector and a grounding screw for electrical safety.

The rear panel includes the AC power input connector for connecting the power cord to an electrical outlet. A grounding screw is also present for connecting the switch to an earth ground, which is recommended for electrical safety and protection against static discharge.

5. SETUP AND INSTALLATION

5.1 Safety Precautions

- Ensure the power cord is disconnected before installation or maintenance.
- Install the switch in a cool, dry place away from direct sunlight and heat sources.
- Ensure proper ventilation around the switch.
- Connect the grounding wire to an appropriate earth ground.

5.2 Desktop Installation

For desktop installation, attach the included rubber feet to the bottom of the switch to prevent scratching and provide stability. Place the switch on a flat, stable surface.

5.3 Rackmount Installation

The DGS-1210-48 can be mounted in a standard 19-inch equipment rack. Use the provided rackmount brackets and screws to secure the switch to the rack. Ensure adequate space for airflow.

5.4 Connecting the Switch

1. Connect your network devices (computers, servers, access points) to the RJ45 ports using standard Ethernet cables.
2. If using fiber optic uplinks, insert compatible SFP transceivers into the SFP ports and connect fiber optic cables.
3. Connect the power cord to the switch's AC power input and then to a power outlet.
4. Verify the Power LED illuminates, indicating the switch is receiving power.

6. OPERATING INSTRUCTIONS

6.1 Initial Access to Web Management Interface

By default, the DGS-1210-48 switch is configured with a default IP address (e.g., 192.168.0.1) and no password. Refer to the Quick Installation Guide for the exact default IP address.

1. Connect a computer directly to any of the switch's RJ45 ports.
2. Configure your computer's IP address to be in the same subnet as the switch (e.g., if switch is 192.168.0.1, set computer to 192.168.0.10 with subnet mask 255.255.255.0).
3. Open a web browser and enter the switch's default IP address in the address bar.
4. Log in using the default username and password (usually 'admin' and no password, or 'admin' for both).
5. *It is highly recommended to change the default password immediately after initial login for security purposes.*

6.2 Basic Configuration

Once logged into the web interface, you can configure various settings:

- **IP Address:** Change the switch's IP address to match your network's addressing scheme.
- **VLANs:** Create and configure Virtual Local Area Networks to segment network traffic.
- **QoS (Quality of Service):** Prioritize critical network traffic for optimal performance.
- **Link Aggregation:** Combine multiple physical links into a single logical link for increased bandwidth and redundancy.
- **Port Settings:** Configure individual port speed, duplex mode, and enable/disable ports.

Refer to the full user manual on the provided CD-ROM for detailed configuration instructions for advanced features.

7. MAINTENANCE

7.1 Firmware Updates

Periodically check the D-Link support website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided with the firmware update package carefully.

7.2 Cleaning the Switch

To clean the switch, disconnect the power cord. Use a soft, dry cloth to wipe the exterior. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and obstructions.

7.3 Resetting to Factory Defaults

If necessary, the switch can be reset to its factory default settings. This typically involves pressing and holding a reset button (often recessed) for a specified duration. Refer to the full user manual for the exact procedure, as this will erase all custom configurations.

8. TROUBLESHOOTING

This section provides solutions to common issues you may encounter with the DGS-1210-48 switch.

8.1 Power LED is Off

- Ensure the power cord is securely connected to the switch and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power cord for any damage.

8.2 No Network Connectivity

- Check the Link/Act LEDs on the switch for the connected ports. A solid green or blinking LED indicates a valid link and activity.
- Ensure Ethernet cables are properly connected and not damaged.
- Verify the network settings (IP address, subnet mask, gateway) on your connected devices.
- If using SFP ports, ensure the SFP transceivers are compatible and correctly inserted, and fiber cables are intact.

8.3 Cannot Access Web Management Interface

- Confirm your computer's IP address is in the same subnet as the switch's IP address.
- Ensure you are using the correct IP address for the switch. If you changed it and forgot, you may need to reset the switch to factory defaults.
- Try a different web browser.
- Temporarily disable any firewall software on your computer.

9. SPECIFICATIONS

Feature	Specification
Model Number	DGS-1210-48
Brand	D-Link

Number of Ports	48 x 10/100/1000BASE-T Gigabit Ethernet, 4 x Combo SFP
Switching Capacity	96 Gbps
Packet Forwarding Rate	71.4 Mpps
MAC Address Table Size	8K
Data Transfer Rate	2000 Megabits Per Second (Full Duplex)
Switch Type	Managed, Layer 2
Interface	RJ45, SFP
Voltage	240 Volts AC (Input)
Upper Temperature Rating	40 Degrees Celsius
Item Weight	2.3 Kilograms
Case Material	Plastic
Compatible Devices	Desktop (and rackmount)

10. SAFETY INFORMATION

- Do not open the device casing. Refer all servicing to qualified service personnel.
- Ensure the power supply voltage is within the specified range (240V).
- Protect the power cord from being walked on or pinched.
- Avoid placing the switch near water or in excessively humid environments.
- Use only the power adapter provided with the device.

11. WARRANTY AND TECHNICAL SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official D-Link website. Support resources typically include FAQs, troubleshooting guides, and contact information for technical assistance.
D-Link Official Website: www.dlink.com