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> D-Link DGS-1210-52 52-Port Gigabit Web Smart Switch Instruction Manual

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INTRODUCTION

The D-Link DGS-1210-52 is a 52-Port Gigabit Web Smart Switch designed for small and medium-sized businesses. It integrates D-Link Green 3.0 technology and complies with IEEE 802.3az Energy Efficient Ethernet standards. This switch offers advanced Layer 2 features, IPv6 management, and comprehensive security functions to ensure network protection and efficient operation. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DGS-1210-52 switch.

WHAT'S IN THE BOX

Verify that your package contains the following items:

- D-Link DGS-1210-52 52-Port Gigabit Web Smart Switch
- Power Cord and Retainer
- Rack-Mount Kit
- Rubber Feet
- Quick Installation Guide

PRODUCT FEATURES

The DGS-1210-52 switch offers a robust set of features for enhanced network performance and security:

- **48 Gigabit Ports:** Provides high-speed connectivity for a wide range of network devices.
- **4 Gigabit Optical SFP Ports:** Enables high-speed uplinks and long-distance fiber connectivity, enhancing network flexibility and scalability.
- **Advanced Traffic Management:** Includes bandwidth control, Quality of Service (QoS), VLAN support, Port Mirroring, Link Aggregation Control Protocol (LACP), Spanning Tree Protocol, and IGMP Snooping to optimize network performance.
- **Comprehensive Security:** Features Access Control List (ACL), 802.1X port-based authentication, RADIUS support, ARP Spoofing Prevention, and D-Link Safeguard Engine.
- **Surveillance Mode with ONVIF Support:** Streamlines IP surveillance network deployment and management by automatically detecting ONVIF-compliant devices and optimizing video traffic.

- **Energy-Efficient Operation:** Complies with IEEE 802.3az Energy Efficient Ethernet standard and features a fan-less design for silent running and reduced power consumption.
- **NDAA Compliant:** Meets strict regulatory standards for government and high-security enterprise projects.



Figure 1: Overview of DGS-1210-52 features.

SETUP INSTRUCTIONS

Follow these steps to set up your DGS-1210-52 switch:

1. **Physical Placement:** Place the switch on a stable, flat surface or mount it in a standard 19-inch equipment rack using the provided rack-mount kit. Ensure adequate ventilation around the device.
2. **Connect Power:** Connect the power cord to the switch's power inlet and then to a suitable power outlet. Use the power cord retainer to secure the connection.
3. **Connect Network Devices:** Connect your network devices (e.g., computers, servers, printers, IP cameras) to the 48 Gigabit Ethernet ports using standard Ethernet cables. For high-speed uplinks or fiber connections, use the 4 Gigabit SFP ports with compatible SFP transceivers.
4. **Initial Configuration (Web-based Management):**
 - Connect a computer directly to any Ethernet port on the switch.
 - Configure your computer's IP address to be in the same subnet as the switch's default IP address (refer to the Quick Installation Guide for default IP).
 - Open a web browser and enter the switch's default IP address.
 - Log in using the default credentials (refer to the Quick Installation Guide).
 - Once logged in, you can configure various network settings, including IP address, VLANs, QoS, and security features.
5. **Surveillance Mode Activation:** If deploying an IP surveillance network, navigate to the Surveillance Mode section in the web user interface. Activating this mode will automatically detect ONVIF-compliant devices and segment them into a dedicated Auto Surveillance VLAN for optimized video traffic management.



Figure 2: Front panel of the DGS-1210-52 switch showing Ethernet and SFP ports.

DGS-1210 SERIES

Smart Managed Switch Line

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Figure 3: Rear panel of the DGS-1210-52 switch.

OPERATING INSTRUCTIONS

The DGS-1210-52 switch provides extensive management capabilities through its intuitive web-based interface.

Network Management

- **VLAN Configuration:** Create and manage Virtual Local Area Networks (VLANs) to segment your network, improving security and performance.
- **Quality of Service (QoS):** Prioritize critical network traffic (e.g., VoIP, video streaming) to ensure consistent performance.
- **Link Aggregation (LACP):** Combine multiple physical links into a single logical link to increase bandwidth and provide link redundancy.
- **Spanning Tree Protocol (STP):** Prevent network loops and ensure network stability.
- **IGMP Snooping:** Optimize multicast traffic delivery, particularly useful for IPTV applications.
- **Static Routing:** Configure static routes for basic Layer 3 functionality, directing traffic between different IP subnets.

Security Features

- **Access Control List (ACL):** Filter network traffic based on MAC or IP addresses, port numbers, and other criteria to enhance security.
- **802.1X Authentication:** Authenticate network clients through external RADIUS servers for secure network access.
- **ARP Spoofing Prevention:** Protect against malicious intruders sending fake ARP messages.
- **D-Link Safeguard Engine:** Protects the switch from traffic flooding caused by virus attacks.
- **DHCP Server Screening:** Blocks rogue DHCP server packets from user ports to prevent unauthorized IP assignment.

Nuclias Connect Management (Optional)

The DGS-1210-52 can be optionally managed via D-Link's Nuclias Connect software. This free software provides scalable, flexible control and insightful reporting for up to 1,500 D-Link access points and DGS-1210 Smart Switches, offering centralized management for your network infrastructure.



Figure 4: Nuclias Connect for centralized network management.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DGS-1210-52 switch.

- **Energy Efficiency:** The switch's compliance with IEEE 802.3az Energy Efficient Ethernet helps reduce power consumption during periods of low network utilization.
- **Silent Operation:** The fan-less design eliminates noise and reduces potential points of failure, contributing to a longer lifespan.
- **Saving Configuration:** Always save the running configuration to the switch's non-volatile memory (NVRAM) after making changes. Changes take effect immediately but will be lost upon reboot or power cycle if not explicitly saved.
- **Firmware Updates:** Periodically check the D-Link support website for firmware updates to ensure your switch has the latest features and security enhancements.
- **Environmental Conditions:** Operate the switch within the specified temperature range (23 to 122 Degrees Fahrenheit) and ensure proper airflow to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your DGS-1210-52 switch, consider the following:

- **No Power:** Ensure the power cord is securely connected to both the switch and the power outlet. Verify the power outlet is functional.
- **No Link Light:** Check the Ethernet cable connections between the switch and the connected device. Try a different cable or port. Ensure the connected device is powered on and functioning correctly.
- **Network Performance Issues:**
 - **Loopback Detection:** The switch features loopback detection to identify and resolve network loops that can cause performance degradation. Check the switch logs for loop detection events.
 - **Cable Diagnostics:** Use the cable diagnostics feature in the web interface to test the integrity of connected Ethernet cables.
 - Verify QoS settings are correctly configured if specific traffic types are experiencing issues.
- **Accessing Web Interface:** Ensure your computer's IP address is in the same subnet as the switch. Clear your browser's cache or try a different browser. If the password is unknown, a factory reset may be required (refer to the Quick Installation Guide for reset procedures).
- **Factory Reset:** If configuration issues persist or you forget the password, perform a factory reset. This will revert all settings to their default values. Consult the Quick Installation Guide for specific instructions on performing a factory reset.

SPECIFICATIONS

Feature	Specification
Brand	D-Link
Model Number	DGS-1210-52
Number of Ports	52 (48 Gigabit Ethernet, 4 Gigabit SFP)
Interface	RJ45, SFP
Data Transfer Rate	104 Gigabits Per Second (Switching Capacity)
Switch Type	Metal, Smart Managed Layer 2+
Number of Layers	2
Case Material Type	Metal
Item Dimensions (L x W x H)	17.25"L x 8.21"W x 1.73"H
Item Weight	7.65 Pounds
Voltage	120 Volts
Current Rating	0.01 Amps
Operating Temperature	23 to 122 Degrees Fahrenheit (-5 to 50 Degrees Celsius)
Compatible Devices	Desktop, Laptop, Printer, Router

WARRANTY INFORMATION

The D-Link DGS-1210-52 switch is backed by a **Limited Lifetime Warranty**. This warranty provides long-term confidence in the quality and reliability of your network infrastructure. For detailed terms and conditions, please refer to the warranty documentation

included with your product or visit the official D-Link website.

SUPPORT

For technical assistance, product documentation, or further information, please visit the official D-Link support website. You can also find resources related to Nuclias Connect management software and other D-Link business solutions.

D-Link is a business solutions provider with over 35 years of experience in networking, committed to providing reliable and secure products.

PRODUCT VIDEO

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Video 1: An overview of D-Link Gigabit Smart Managed and Surveillance Switches, highlighting their features and applications.