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D-Link DGS-108

D-Link DGS-108 8-Port Gigabit Ethernet Switch User Manual

Model: DGS-108

1. INTRODUCTION

The D-Link DGS-108 is a silent, metal-cased 8-port Gigabit Ethernet switch designed to provide instant, lag-free wired connectivity for various networking needs. It offers a robust solution for expanding your network in home, office, or creative environments without requiring complex configuration. Featuring a 16 Gbps switching fabric, Quality of Service (QoS) for traffic prioritization, and Green Ethernet technology for power savings, this switch is suitable for demanding applications such as 4K streaming, online gaming, VoIP communications, and smart home integration. Its fanless metal design ensures quiet operation and efficient heat dissipation, contributing to long-term reliability.



Figure 1.1: Front view of the D-Link DGS-108 8-Port Gigabit Ethernet Switch, showing the eight RJ45 ports and LED indicators.

2. SETUP

2.1 Package Contents

Verify that your package contains the following items:

- D-Link DGS-108 8-Port Gigabit Ethernet Switch
- Quick Installation Guide (QIG)

- Power Adapter

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

2.2 Physical Installation

The DGS-108 switch is designed for flexible placement, supporting both desktop and wall-mount configurations. Its fanless metal housing ensures quiet operation and efficient heat dissipation.

1. **Placement:** Choose a suitable location for the switch. It can be placed on a desktop or mounted on a wall using the integrated keyhole slots. Ensure adequate ventilation around the device.
2. **Power Connection:** Connect the included power adapter to the power input port on the rear of the DGS-108 switch. Plug the other end of the power adapter into a standard electrical outlet.



Figure 2.1: Rear view of the DGS-108, highlighting the power input (5V==1A) and grounding screw (SWITCH GND).

3. **Network Connections:** Connect your network devices (e.g., computers, printers, NAS, routers) to any of the eight Gigabit Ethernet ports on the front of the switch using standard Cat5e, Cat6, or Cat6A UTP Ethernet cables. The switch features auto MDI/MDIX, eliminating the need for crossover cables.

Plug & Play Networking Switch

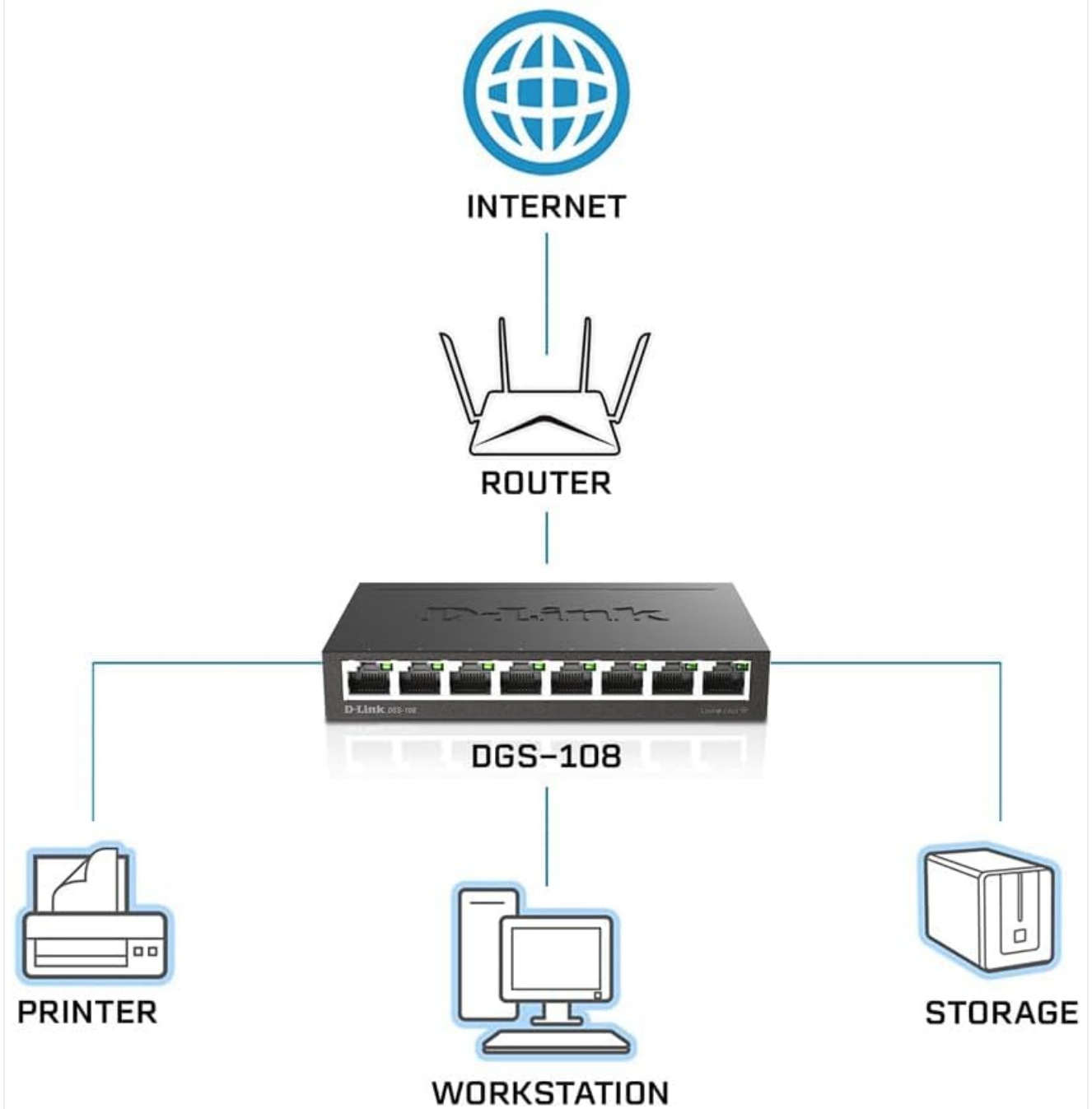


Figure 2.2: Illustration of the DGS-108 in a typical network setup, demonstrating its plug-and-play functionality to expand network connectivity.

2.3 Plug & Play Operation

The DGS-108 is an unmanaged switch, meaning it requires zero configuration. Once powered on and connected to your network devices, it will automatically detect and establish connections, providing immediate network expansion.

3. OPERATING THE SWITCH

3.1 Basic Functionality

The DGS-108 provides 8 auto-negotiating Gigabit Ethernet ports, supporting full/half duplex operation with speeds up to 2Gbps per port (1Gbps up + 1Gbps down). It acts as a non-blocking switching engine, ensuring efficient data transfer

between connected devices.

3.2 LED Indicators

Each port on the DGS-108 has an associated LED indicator that provides visual feedback on its status:

- **Link/Activity LED (Green):**
 - **Solid Green:** Indicates a valid network link is established at Gigabit speed (1000 Mbps).
 - **Flashing Green:** Indicates network activity (data transmission or reception) on the port.
 - **Off:** No network link is detected or the connected device is powered off.

The power LED on the right side of the switch indicates if the device is receiving power.

3.3 Smart QoS Prioritization

The switch incorporates 802.1p Quality of Service (QoS) traffic classes. This feature prioritizes time-sensitive and important data packets, such as those for voice (VoIP), video streaming, and online gaming, ensuring smooth and uninterrupted performance even when the network is under heavy load.

3.4 IGMP Snooping for IPTV & Multicast

IGMP (Internet Group Management Protocol) Snooping enables the switch to efficiently manage multicast traffic. This is particularly beneficial for applications like IPTV and 4K/8K video streaming, as it prevents multicast streams from flooding the entire network, directing them only to the ports where devices have requested them.

3.5 Jumbo Frame Support

The DGS-108 supports Jumbo Frames up to 9KB. This feature allows for larger data packets to be transmitted, which can significantly boost throughput for tasks involving large backups and multimedia transfers between Network Attached Storage (NAS) devices and personal computers.

4. MAINTENANCE

4.1 Cleaning

To ensure optimal performance and longevity of your DGS-108 switch, keep it clean and free from dust. Use a soft, dry cloth to wipe the exterior. Avoid using liquid cleaners or aerosols, as they may damage the device.

4.2 Environmental Considerations

The DGS-108 features a fanless metal housing designed to dissipate heat naturally. Ensure that the switch is placed in a location with adequate airflow and is not obstructed by other objects. This helps maintain optimal operating temperature and contributes to the device's long-term reliability.

Reduced Energy Consumption

D-Link Green™ devices are about providing eco-friendly alternatives without compromising performance



Reduced Energy Consumption when connected devices are powered up and support EEE*



Reduced Energy Consumption when connected devices are powered down*



Reduced Energy Consumption using Ethernet Cables 3m or less*

* Power consumption measured against a conventional non D-Link Green Switch. Power consumption may vary depending on device EEE support, power meter, input voltage and power adapter used.

Figure 4.1: D-Link Green technology reduces energy consumption by up to 93% when connected devices are powered up and support EEE, up to 81% when devices are powered down, and up to 76% using Ethernet cables 3m or less.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your DGS-108 switch.

Problem	Possible Cause	Solution
No Power LED indication.	Power adapter not connected or faulty.	Ensure the power adapter is securely connected to the switch and a working electrical outlet. Verify the outlet is active.
Port Link/Activity LED is off.	No network cable connected, faulty cable, or connected device is off/faulty.	<p>Ensure the Ethernet cable is securely connected to both the switch port and the device.</p> <p>Verify the connected device is powered on and functioning correctly.</p> <p>Try a different Ethernet cable to rule out a faulty cable.</p> <p>Ensure the cable length does not exceed 100 meters.</p>
Slow network performance.	Network congestion, cable issues, or device limitations.	<p>Check for excessive network traffic.</p> <p>Ensure all connected devices and cables support Gigabit Ethernet for optimal speed.</p> <p>Verify cable integrity; damaged cables can degrade performance.</p> <p>Utilize QoS features for critical applications.</p>

For more detailed troubleshooting or persistent issues, refer to the full user manual available on the D-Link support website or contact D-Link technical support.

6. SPECIFICATIONS

Feature	Description
Model Number	DGS-108
Switch Type	Unmanaged
Number of Ports	8
Interface Type	RJ45
Data Transfer Rate	1 Gigabits Per Second (per port)
Product Dimensions (L x W x H)	6.4" x 4.05" x 1.1"
Item Weight	0.14 Kilograms (4.8 ounces)
Case Material	Metal
Voltage	5 Volts (DC)
Current Rating	1 Amps
Color	Black
Included Components	Switch, Quick Installation Guide (QIG), Power Adapter
Manufacturer	D-Link
Country of Origin	China
Jumbo Frame Support	9KB
Energy Efficiency	IEEE 802.3az Energy Efficient Ethernet
Protection	Built-in Surge & ESD Protection (± 4 kV)

7. WARRANTY AND SUPPORT

7.1 Limited Lifetime Protection

The D-Link DGS-108 switch comes with Limited Lifetime Protection, providing long-term assurance for your investment. For detailed terms and conditions of the warranty, please refer to the official D-Link website or the warranty information included with your product.

7.2 Technical Support

D-Link offers dedicated technical support to assist you with any questions or issues regarding your DGS-108 switch. US-based support is available. You can find contact information and additional resources, including the full user manual in PDF format, on the official D-Link support website:

[Visit D-Link Support Website](#)

[Download User Manual \(PDF\)](#)

8. PRODUCT VIDEOS

Based on the provided information, there are no official product videos available for embedding in this manual.

