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D-Link DGS-1024D

D-Link DGS-1024D 24-Port Gigabit Ethernet Unmanaged Switch User Manual

Model: **DGS-1024D** | Brand: **D-Link**

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your D-Link DGS-1024D 24-Port Gigabit Ethernet Unmanaged Switch. This device is designed to enhance network performance by providing 24 Gigabit Ethernet ports for high-speed data transfer. Please read this manual thoroughly before attempting to install or operate the switch.

2. Package Contents

Carefully unpack the box and verify that the following items are present:

- D-Link DGS-1024D 24-Port Gigabit Ethernet Unmanaged Switch
- Power Cord
- Rack Mount Kit (Rack ears and screws)
- Rubber Feet (for desktop installation)
- Quick Installation Guide

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

3. Product Overview

3.1. Front Panel

The front panel of the DGS-1024D features 24 Gigabit Ethernet ports and LED indicators for status monitoring.



Figure 1: Front view of the D-Link DGS-1024D switch, showing 24 RJ-45 Gigabit Ethernet ports, LED indicators for Link/Activity and 10/100/1000Mbps speed, and a power LED. The D-Link logo and model number DGS-1024D are visible on the left.

LED Indicators:

- **Power LED:** Indicates the power status of the switch.
- **Link/Act LED (per port):** *Green* indicates a valid network connection. *Blinking green* indicates data activity.
- **Speed LED (per port):** *Green* indicates a 1000Mbps connection. *Amber* indicates a 10/100Mbps connection.

3.2. Rear Panel

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



Figure 2: Rear view of the D-Link DGS-1024D switch, showing the AC power input socket (100-240VAC, 50-60Hz), a grounding screw labeled 'SWITCH GND', and a power cord retainer clip.

3.3. Key Features

- 24 x 10/100/1000Base-T LAN ports
- 48Gbps switching capacity
- 8K MAC Address Table
- Rack mountable or Desktop placement options
- Non-blocking switching architecture
- 802.3x Flow Control for full-duplex mode
- Back pressure flow control for half-duplex mode
- Auto MDI/MDIX on all ports
- Plug-and-play installation

4. Setup

4.1. Installation Options

The DGS-1024D switch can be installed in two ways:

- **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.
- **Rack Installation:** Use the provided rack-mount brackets and screws to secure the switch into a standard 19-inch equipment rack. Ensure adequate ventilation around the switch.

4.2. Connecting the Switch

1. Connect your network devices (computers, servers, network printers, etc.) to any of the 24 Gigabit Ethernet ports on the front panel using standard RJ-45 Ethernet cables.
2. Ensure that the Link/Act and Speed LEDs illuminate correctly for each connected device, indicating a successful connection and speed.

4.3. Powering On

1. Connect the included power cord to the AC power input on the rear panel of the switch.
2. Plug the other end of the power cord into a suitable electrical outlet.
3. Verify that the Power LED on the front panel illuminates, indicating the switch is receiving power.

5. Operating Instructions

The DGS-1024D is an unmanaged switch, meaning it operates with plug-and-play functionality and requires no software configuration. Once powered on and connected to your network devices, it will automatically detect network speeds and duplex modes, facilitating data transfer.

- **Automatic Speed Detection:** Each port automatically detects the speed of the connected device (10Mbps, 100Mbps, or 1000Mbps) and adjusts accordingly.
- **Auto MDI/MDIX:** The switch automatically detects the type of Ethernet cable (straight-through or crossover) and adjusts the port configuration, eliminating the need for specific cable types.
- **Full/Half Duplex:** The switch supports both full-duplex and half-duplex modes, optimizing data flow based on the connected device's capabilities.

6. Maintenance

To ensure optimal performance and longevity of your DGS-1024D switch, consider the following maintenance guidelines:

- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges. Avoid placing it in direct sunlight or near heat sources.
- **Ventilation:** Ensure that the ventilation openings on the sides of the switch are not blocked to allow for proper airflow and heat dissipation.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Power Supply:** Use only the power adapter provided with the switch. In case of power fluctuations, consider using a surge protector.

7. Troubleshooting

If you encounter issues with your DGS-1024D switch, refer to the following common troubleshooting steps:

7.1. No Power

- Ensure the power cord is securely connected to both the switch and a working electrical outlet.
- Verify that the power outlet is functional by plugging in another device.
- Check the Power LED on the front panel. If it is off, the switch is not receiving power.

7.2. No Link/Activity on a Port

- Verify that the Ethernet cable is securely connected to both the switch port and the network device.
- Ensure the connected network device is powered on and functioning correctly.
- Try using a different Ethernet cable to rule out a faulty cable.
- Test the connection with a different port on the switch.
- Check the Link/Act LED for the specific port. If it is off, there is no active link.

7.3. Slow Network Speed

- Check the Speed LED for the connected port. A green LED indicates 1000Mbps, while an amber LED indicates 10/100Mbps.
- Ensure that both the switch and the connected device support Gigabit Ethernet (1000Mbps).
- Verify that the Ethernet cable used is rated for Gigabit speeds (e.g., Cat5e or Cat6).
- Reduce network congestion by limiting bandwidth-intensive activities if possible.

8. Specifications

Model Number	DGS-1024D
Number of Ports	24 x 10/100/1000Base-T Gigabit Ethernet
Switching Capacity	48 Gbps
MAC Address Table Size	8K entries
Flow Control	IEEE 802.3x for Full-Duplex, Back Pressure for Half-Duplex
Auto MDI/MDIX	Supported on all ports
Power Input	100-240VAC, 50-60Hz
Product Dimensions	5.91 x 11.1 x 1.73 inches (15 x 28.2 x 4.4 cm)
Product Weight	2.87 Pounds (1.3 kg)
Installation	Rack-mountable or Desktop
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 70°C (14°F to 158°F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing

9. Warranty and Support

D-Link products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the

warranty information included with your product or visit the official D-Link website. For technical support, product documentation, and software updates, please visit your regional D-Link website or contact D-Link technical support directly.

Online Resources:

- D-Link Global Website: www.dlink.com
- D-Link Support: Refer to your regional D-Link website for local support contacts.

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