

D-Link DGS-1500-28

D-Link DGS-1500-28 SmartPro 24-Port Gigabit Switch User Manual

Model: DGS-1500-28

1. INTRODUCTION

The D-Link DGS-1500-28 SmartPro 24-Port Gigabit Switch is a high-performance Layer 3 managed switch designed for small to medium-sized businesses. It offers 24 Gigabit Ethernet ports and 4 SFP+ expansion slots, providing flexible connectivity and advanced management features. This manual provides essential information for the proper installation, configuration, operation, and maintenance of your DGS-1500-28 switch.

2. PACKAGE CONTENTS

Verify the following items are present in your DGS-1500-28 package. If any item is missing or damaged, please contact your local D-Link reseller for assistance.

- DGS-1500-28 SmartPro 24-Port Gigabit Switch
- Power Cord
- Rack Mount Kit (two brackets and screws)
- Rubber Feet (for desktop installation)
- Console Cable (RJ-45 to RS-232)
- Quick Installation Guide
- CD-ROM (containing product documentation)

3. PHYSICAL DESCRIPTION

3.1 Front Panel

The front panel of the DGS-1500-28 switch features the Gigabit Ethernet ports, SFP+ slots, and LED indicators for monitoring the switch's status and activity.



This image displays the front panel of the D-Link DGS-1500-28 switch, featuring 24 RJ-45 Gigabit Ethernet ports and LED indicators for status and activity.

- **RJ-45 Ports (1-24):** 10/100/1000 Mbps Gigabit Ethernet ports for connecting network devices.
- **SFP+ Slots (25-28):** 10 Gigabit Ethernet SFP+ ports for fiber optic connections or stacking.
- **LED Indicators:**
 - **Power LED:** Indicates power status.
 - **Link/Act LED (per port):** Indicates network link and data activity.
 - **Speed LED (per port):** Indicates connection speed (e.g., green for Gigabit, amber for 10/100 Mbps).

3.2 Rear Panel

The rear panel typically includes the power connector, grounding screw, and a console port for out-of-band management.

- **AC Power Receptacle:** Connects to the provided AC power cord.
- **Grounding Screw:** Provides an optional connection for grounding the switch.
- **Console Port:** RJ-45 port for connecting a console cable to a computer for command-line interface (CLI) management.

4. INSTALLATION

4.1 Desktop Installation

1. Attach the four rubber feet to the recessed areas on the bottom of the switch.
2. Place the switch on a sturdy, level surface that can support its weight.
3. Ensure adequate ventilation around the switch.

4.2 Rack Installation

1. Attach the two rack-mounting brackets to the sides of the switch using the provided screws.
2. Secure the switch into a standard 19-inch equipment rack using appropriate rack screws (not included).
3. Ensure proper airflow and avoid placing the switch near heat sources.

4.3 Powering On the Switch

1. Connect the AC power cord to the power receptacle on the rear panel of the switch.
2. Plug the other end of the power cord into a suitable power outlet.
3. The Power LED on the front panel will illuminate, indicating the switch is receiving power.

5. INITIAL CONFIGURATION

The DGS-1500-28 switch can be managed via a web-based graphical user interface (GUI) or a command-line interface (CLI) through the console port.

5.1 Accessing the Web-based Management Interface

1. Connect a computer to any of the switch's RJ-45 ports 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 is 10.90.90.90, set your computer to 10.90.90.100).
3. Open a web browser and enter the switch's default IP address (e.g., **http://10.90.90.90**) in the address bar.
4. Enter the default username and password (refer to the Quick Installation Guide for default credentials).
5. Upon successful login, you will access the switch's web management interface.

Note: It is highly recommended to change the default password immediately after initial login for security purposes.

6. OPERATING THE SWITCH

Once configured, the DGS-1500-28 operates as a network switch, forwarding data between connected devices. The LED indicators provide visual feedback on the operational status of the switch and its ports.

6.1 Port Functionality

- **RJ-45 Ports:** Automatically detect the speed and duplex mode of connected devices (10/100/1000 Mbps).
- **SFP+ Slots:** Support 10 Gigabit Ethernet transceivers for high-speed uplinks or stacking. Ensure compatible SFP+ modules are used.

6.2 Advanced Features

The DGS-1500-28 series integrates advanced features to enhance network performance and management:

- **Virtual Stacking:** Allows up to 32 DGS-1500 series devices to be managed as a single unit with one IP address, simplifying network administration and scalability.

- **Layer 3 Static Routing:** Enables the switch to forward IP packets between different IP subnets based on static routes configured by the administrator. This feature is crucial for inter-VLAN routing and basic network segmentation.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your DGS-1500-28 switch.

- **Firmware Updates:** Periodically check the D-Link support website for the latest firmware versions. Updating firmware can provide new features, performance improvements, and security patches.
- **Environmental Conditions:** Ensure the switch operates within recommended temperature and humidity ranges. Keep ventilation openings clear of obstructions.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Configuration Backup:** Regularly back up your switch configuration to an external device. This allows for quick restoration in case of a factory reset or device replacement.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your DGS-1500-28 switch.

8.1 Power LED is Off

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

8.2 No Link/Activity on a Port

- Check the Ethernet cable connection at both ends. Try a different cable.
- Ensure the connected device is powered on and functioning correctly.
- Verify the port status in the switch's web management interface.
- For SFP+ ports, ensure the SFP+ module is correctly inserted and compatible.

8.3 Cannot Access Web Management Interface

- Confirm your computer's IP address is in the same subnet as the switch's IP address.
- Verify the switch's IP address. If unknown, you may need to reset the switch to factory defaults (refer to the Quick Installation Guide for reset procedures).
- Ensure there are no IP address conflicts on the network.
- Try accessing the interface from a different web browser or computer.

9. SPECIFICATIONS

Feature	Description
Brand	D-Link
Model Number	DGS150028
Ports	24 x 10/100/1000 Mbps RJ-45 Gigabit Ports, 4 x 10 Gigabit SFP+ Expansion Slots
Interface Type	RJ45, SFP+

Feature	Description
Switching Capacity	Up to 128 Gbps (non-blocking)
Layer Support	Layer 3 (Static Routing)
Management	Web-based GUI, CLI, SNMP
Compatible Devices	Desktop, Rack-mount devices
Item Weight	0.01 Ounces (Note: This value may be a placeholder or incorrect. Refer to product packaging for accurate weight.)
UPC	790069362927
ASIN	B007TL1DHM

10. WARRANTY AND SUPPORT

D-Link products are backed by a limited warranty. The specific terms and conditions of the warranty may vary by region and product. Please refer to the warranty information included with your product or visit the official D-Link website for detailed warranty statements.

For technical support, product documentation, firmware updates, and FAQs, please visit the D-Link support website:

www.dlink.com/support

You may also contact D-Link technical support directly through the contact information provided on their website for your specific region.