D-Link DES-1016A

D-Link DES-1016A 16-Port Fast Ethernet Switch User Manual

Model: DES-1016A

1. INTRODUCTION

This manual provides instructions for the D-Link DES-1016A 16-Port Fast Ethernet Switch. This device is designed to expand your network connectivity, offering an economical and efficient solution for small offices, home offices (SOHO), and small to medium businesses (SMBs). It features D-Link Green Technology for energy efficiency and provides sixteen 10/100 Mbps Fast Ethernet ports for reliable network expansion.

2. PACKAGE CONTENTS

Please verify that your package contains the following items:

- D-Link DES-1016A 16-Port Fast Ethernet Switch
- Power Adapter
- User Manual (this document)

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

3. PRODUCT OVERVIEW

3.1 Front Panel

The front panel of the DES-1016A switch features 16 Fast Ethernet ports, each with an indicator LED. These LEDs provide visual feedback on the status of each port.

Figure 1: Front view of the D-Link DES-1016A switch, showing the D-Link logo, model number, and 16 port status indicator LEDs.

3.2 Rear Panel

The rear panel includes the power input and the 16 RJ45 Fast Ethernet ports for network connections.

Figure 2: Top and rear view of the D-Link DES-1016A switch, highlighting the 16 RJ45 Ethernet ports and the power input on the rear.

3.3 Features

- Sixteen (16) 10/100 Mbps Fast Ethernet ports
- Auto MDI/MDIX crossover for all ports, eliminating the need for crossover cables
- Auto-negotiation for port speed (10 Mbps or 100 Mbps)
- Full/half-duplex operation for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control for reliable data transfer
- IEEE 802.3az Energy-Efficient Ethernet (EEE) to reduce power consumption
- Plug & Play installation for easy setup
- 3.2 Gbps switching fabric capacity
- IEEE 802.1P QoS support

4. SETUP INSTRUCTIONS

The D-Link DES-1016A switch is designed for simple plug-and-play installation. Follow these steps to set up your switch:

1. **Placement:** Place the switch on a flat, stable surface or mount it in a suitable location. Ensure adequate ventilation around the device.

2. **Connect Network Devices:** Connect your network devices (e.g., computers, servers, network printers, other switches/routers) to any of the 16 RJ45 ports on the switch using standard Ethernet cables. The switch supports auto MDI/MDIX, so you do not need to worry about using crossover cables.

3. **Connect Power:** Connect the provided power adapter to the power input port on the rear of the switch, then plug the adapter into a standard electrical outlet.

4. **Verify Power:** Once connected, the power indicator LED on the front panel should illuminate, indicating the switch is receiving power.

5. **Verify Connections:** The corresponding port LEDs will illuminate when a device is successfully connected and active. A blinking LED indicates network activity.

Your D-Link DES-1016A switch is now ready for use.

5. Operating the Switch

The DES-1016A is an unmanaged switch, meaning it operates automatically without requiring any configuration.

5.1 LED Indicators

The front panel LEDs provide status information for each port:

- **Power LED:** Illuminates when the switch is powered on.
- **Link/Act LEDs (for each port):**
  - *Solid Green:* Indicates a valid network connection at 100 Mbps.
  - *Solid Amber:* Indicates a valid network connection at 10 Mbps.
  - *Blinking:* Indicates network activity (data transmission/reception) on that port.
  - *Off:* No device is connected, or the connected device is powered off.

5.2 D-Link Green Technology

The DES-1016A incorporates D-Link Green Technology, which automatically detects link status and cable length to adjust power usage. This feature helps reduce energy consumption without compromising performance.

6. Maintenance

The D-Link DES-1016A switch requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation openings are not blocked to prevent overheating.
- **Power Cycle:** If the switch is unresponsive, disconnect the power adapter, wait 10 seconds, and then reconnect it.

7. Troubleshooting

If you experience issues with your D-Link DES-1016A switch, refer to the following common problems and solutions:

Problem	Possible Solution
No Power LED indication	- Ensure the power adapter is securely connected to the switch and a working electrical outlet. - Verify the electrical outlet is functional by plugging in another device.
Port Link/Act LED is off	- Check if the connected device is powered on and functioning correctly. - Ensure the Ethernet cable is securely connected to both the switch port and the device. - Try a different Ethernet cable. - Try connecting to a different port on the switch.
Slow network speed	- Ensure all connected devices support Fast Ethernet (100 Mbps) for optimal performance. - Check for faulty or damaged Ethernet cables. - Verify that the connected devices are not experiencing issues.

If the problem persists after trying these solutions, please contact D-Link Technical Support.

8. TECHNICAL SPECIFICATIONS

Feature	Description
Model	DES-1016A
Number of Ports	16
Interface Type	RJ45
Data Transfer Rate	10/100 Mbps (Fast Ethernet)
Data Link Protocol	IEEE 802.3, IEEE 802.3u, IEEE 802.3x Flow Control, Auto-MDI/MDIX, ANSI/IEEE 802.3 NWay auto-negotiation, IEEE 802.1P QoS
Switching Fabric Capacity	3.2 Gbps
Energy Efficiency	IEEE 802.3az Energy-Efficient Ethernet (EEE)
Product Dimensions	25.6L x 20.8W x 6.8H Centimeters
Item Weight	540 Grams
Case Material Type	Plastic
Power Source	AC (via external power adapter)
Manufacturer	D-Link Corporation
UPC	777060002694

9. WARRANTY AND SUPPORT
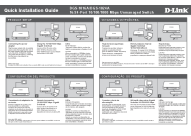
9.1 Product Warranty

The D-Link DES-1016A 16-Port Fast Ethernet Switch comes with a **3-Year Brand Warranty**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the warranty card included with your product or visit the official D-Link website.

9.2 Technical Support

For technical assistance, product information, or troubleshooting not covered in this manual, please contact D-Link Technical Support. You can find contact information and additional resources on the official D-Link website: www.dlink.com.

Related Documents - DES-1016A

[D-Link DES-1005C/1008C: 5/8-Port 10/100Base-TX Unmanaged Desktop Network Switches](#)

Explore the D-Link DES-1005C (5-port) and DES-1008C (8-port) unmanaged desktop switches. These cost-effective solutions offer Plug-and-play installation, high-speed 10/100Base-TX connectivity, energy-saving features, and reliable performance for SOHO and SMB networks.

[D-Link DGS-1016A/DGS-1024A Quick Installation Guide: Setup and Configuration](#)

Get your D-Link DGS-1016A and DGS-1024A 16/24-Port 10/100/1000 Mbps Unmanaged Switches up and running quickly with this comprehensive installation guide. Learn how to connect power, network devices, and understand LED indicators.

[D-Link DGS-1024C 24-Port Gigabit Ethernet Unmanaged Switch - Technical Specifications](#)

Detailed technical specifications and features for the D-Link DGS-1024C, a 24-port Gigabit Ethernet unmanaged switch designed for SOHO and SMB networks, offering high speed, QoS, and energy efficiency.

[D-Link DES-1018MPV2 User Guide: Installation, Specifications, and Safety](#)

Comprehensive user guide for the D-Link DES-1018MPV2 18-port PoE unmanaged switch. Includes installation instructions, hardware overview, technical specifications, safety guidelines, and environmental information.

[D-Link DES-1024A 24-Port Fast Ethernet Switch - Технические характеристики и руководство](#)

Подробное описание коммутатора D-Link DES-1024A, включая технические характеристики, особенности и контактную информацию. Идеально подходит для сетей Fast Ethernet.

[D-Link Switch Installation Locations](#)

A guide detailing the installation locations for various D-Link network switches, including desktop, wall-mount, and 19-inch rack options, covering standard, PoE, and archived models.