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Linksys SR224G

Linksys SR224G 24-Port 10/100 + 2-Port Gigabit Switch User Manual

Model: SR224G

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Linksys SR224G 24-Port 10/100 + 2-Port Gigabit Switch. This device is designed to provide high-speed network connectivity for your local area network (LAN).

The Linksys SR224G is an unmanaged switch offering non-blocking, wire-speed switching for 10 Mbps and 100 Mbps network clients. It includes integrated Gigabit and mini-GBIC ports for flexible backbone connectivity and future expansion. Its robust design ensures reliable data transfer and network performance.



Figure 1: Front view of the Linksys SR224G Switch. This image shows the compact, rack-mountable design of the switch with its numerous Ethernet ports and indicator lights on the front panel.

2. Key Features

The Linksys SR224G switch offers the following primary features:

- **24 x 10/100 Mbps Ethernet Ports:** Provides connectivity for up to 24 network devices at Fast Ethernet speeds.
- **2 x Gigabit Ports (10/100/1000BaseTX):** Offers high-speed uplink connectivity to your network backbone.
- **2 x Mini-GBIC Ports:** Allows for flexible expansion using fiber optic modules for longer distance connections.
- **Non-Blocking, Wire-Speed Switching:** Ensures maximum throughput by forwarding packets as fast as the network can deliver them.
- **Automatic MDI/MDI-X Crossover Detection:** Eliminates the need for crossover cables, simplifying installation.
- **Auto-Negotiation:** Each port automatically detects and adjusts to the optimal speed (10/100 Mbps) and duplex

mode (half/full-duplex) of the connected device.

- **Store-and-Forward Switching:** Prevents damaged packets from being propagated through the network.
- **Head-of-Line Blocking Prevention:** Optimizes traffic flow, preventing slower connections from impeding faster ones.
- **Rack-Mountable Design:** Suitable for installation in standard network racks.

3. Setup Instructions

Follow these steps to set up your Linksys SR224G switch:

1. **Unpack the Switch:** Carefully remove the switch and all accessories from the packaging. Verify that all components are present.
2. **Choose a Location:** Select a stable, level surface or a standard 19-inch equipment rack for installation. Ensure adequate ventilation around the switch to prevent overheating. Avoid placing it near heat sources or in direct sunlight.
3. **Mounting (Optional):** If rack-mounting, attach the included rack-mount brackets to the sides of the switch using the provided screws. Secure the switch into the rack.
4. **Connect Network Devices:**
    - Connect your computers, servers, network printers, and other network devices to the 10/100 Mbps Ethernet ports (ports 1-24) using standard Ethernet cables.
    - For high-speed backbone connections, use the Gigabit Ethernet ports (ports 25-26).
    - If using fiber optic connections, insert compatible mini-GBIC modules into the mini-GBIC slots and connect fiber optic cables.
5. **Connect Power:** Connect the provided power cord to the power input on the rear panel of the switch and then to a standard AC power outlet.
6. **Power On:** The switch will power on automatically. The Power LED on the front panel should illuminate.
7. **Verify Connections:** Check the Link/Act LEDs for each connected port. A solid green light indicates a valid link, and a blinking light indicates network activity.

4. Operating the Switch

The Linksys SR224G is an unmanaged switch, meaning it operates automatically without requiring configuration. Once connected, it facilitates communication between all connected devices.

LED Indicators:

The front panel of the switch features several LED indicators to provide status information:

- **Power LED:**
    - **Solid Green:** The switch is powered on and operating correctly.
    - **Off:** The switch is not receiving power.
- **Link/Act LEDs (per port):**
    - **Solid Green:** A valid network link is established on the port.
    - **Blinking Green:** Data is being transmitted or received through the port.

    - **Off:** No device is connected, or the connected device is not powered on/functioning correctly.
- **100 Mbps LED (per 10/100 port):**
    - **Solid Green:** The port is operating at 100 Mbps.
    - **Off:** The port is operating at 10 Mbps.
- **Gigabit LED (per Gigabit port):**
    - **Solid Green:** The port is operating at 1000 Mbps.
    - **Off:** The port is operating at 10/100 Mbps.

Simply connect your devices, and the switch will automatically manage data flow, providing efficient and reliable network communication.

5. Maintenance

The Linksys SR224G switch requires minimal maintenance to ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure the ventilation openings are free from dust and obstructions.
- **Ventilation:** Ensure that the switch has adequate airflow around it. Do not block the ventilation slots. Proper ventilation prevents overheating and ensures stable operation.
- **Cable Management:** Keep network cables neatly organized to prevent accidental disconnections and to maintain good airflow.
- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges (refer to specifications section).

6. Troubleshooting

If you encounter issues with your Linksys SR224G switch, try the following troubleshooting steps:

1. **No Power:**
    - Ensure the power cord is securely connected to the switch and a working power outlet.
    - Check the power outlet by plugging in another device.
    - Verify the Power LED on the front panel is illuminated.
2. **No Link on a Port:**
    - Check if the Ethernet cable is securely connected to both the switch port and the network device.
    - Try a different Ethernet cable.
    - Ensure the connected network device is powered on and functioning correctly.
    - Try connecting the device to a different port on the switch.
3. **Slow Network Performance:**
    - Verify that all cables are in good condition and properly connected.
    - Check the Link/Act LEDs to ensure connections are at the expected speed (e.g., 100 Mbps LED on for Fast Ethernet).
    - Ensure there is no excessive network traffic or broadcast storms.
    - Restart the switch by disconnecting and reconnecting the power.

4. **Intermittent Connectivity:**
    - Check for loose cable connections.
    - Ensure the switch is not overheating; check ventilation.
    - Test with different cables and devices to isolate the issue.

If problems persist after attempting these steps, contact Linksys customer support for further assistance.

7. Technical Specifications

Feature	Specification
Model Number	SR224G
Ports	24 x 10/100 Mbps RJ-45, 2 x 10/100/1000 Mbps RJ-45, 2 x Mini-GBIC (shared with Gigabit ports)
Data Transfer Rate	100 Megabits Per Second (max)
Switching Capacity	Non-blocking, wire-speed
MAC Address Table Size	Hardware MAC and IP address learning
Communication Mode	Half/Full-Duplex
Dimensions (L x W x H)	13.74 x 17.01 x 1.75 inches (34.9 x 43.2 x 4.4 cm)
Item Weight	6.25 pounds (2.83 kg)
Power	Internal power supply (AC input)
Operating Temperature	(Typical operating range for network switches, specific value not provided in source)
Operating Humidity	(Typical operating range for network switches, specific value not provided in source)

8. Warranty and Support

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official Linksys website. Warranty terms and conditions may vary by region.
For technical support, frequently asked questions, and additional resources, please visit the official Linksys support page:

Linksys Support Website

You can also find more information about Linksys products and services by visiting the Linksys Store on Amazon.

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