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Black Box LPB1308A-R2

Black Box LPB1308A-R2 8-Port Gigabit PoE+ Switch Instruction Manual

Model: LPB1308A-R2

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the Black Box LPB1308A-R2 8-Port Gigabit PoE+ Switch. This device is designed to provide reliable network connectivity and Power over Ethernet Plus (PoE+) capabilities for compatible devices.
Key features include:

- Support for 10/100/1000-Mbps Ethernet with auto-detection for speed and duplex.
- Automatic detection of PoE+ devices.
- 4 shielded PoE+ ports providing up to 30 watts of power per port, with a total power budget of 62 watts.

2. Safety Information

Please read and understand all safety instructions before installing or operating this equipment. Failure to do so may result in injury or damage to the device.

- **Power Source:** Connect the switch only to the type of power source indicated on the marking label.
- **Ventilation:** Ensure proper ventilation. Do not block ventilation openings.
- **Moisture:** Do not expose the switch to water or excessive moisture.
- **Temperature:** Operate the switch within the specified temperature range.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. Package Contents

Verify that your package contains the following items. If any item is missing or damaged, contact your supplier immediately.

- Black Box LPB1308A-R2 8-Port Gigabit PoE+ Switch
- Power Cord
- Instruction Manual (this document)

4. Setup

Follow these steps to set up your Black Box PoE+ Switch.

4.1 Physical Overview



Figure 4.1: Front Panel View

This image displays the front panel of the Black Box LPB1308A-R2 switch, featuring eight RJ45 Ethernet ports, each with corresponding PoE and Link/Act LED indicators. The "BLACK BOX" logo and "8 Port 10/100/1000M PoE Switch" text are also visible.

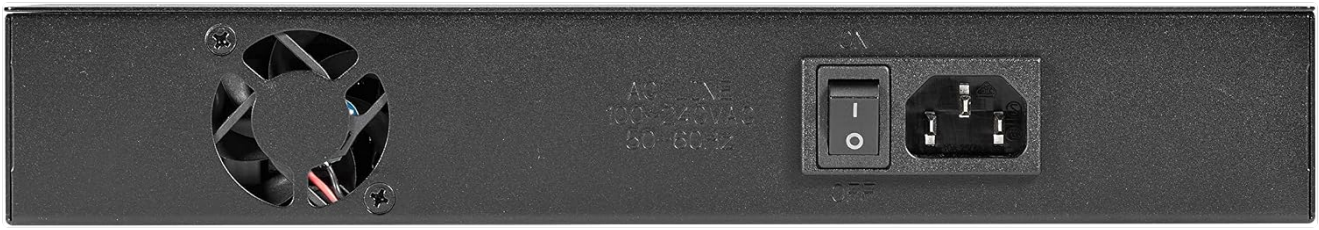


Figure 4.2: Rear Panel View

This image shows the rear panel of the Black Box LPB1308A-R2 switch, including the AC power input socket, a power switch, and a cooling fan vent.

4.2 Connecting the Switch

1. **Power Connection:** Connect the provided power cord to the AC power input on the rear panel of the switch (refer to Figure 4.2) and then to a suitable power outlet. Ensure the power switch is in the OFF position before connecting.
2. **Network Device Connection:**
    - Connect your network devices (e.g., computers, servers, non-PoE access points) to any of the eight RJ45 ports on the front panel using standard Ethernet cables.
    - For PoE+ enabled devices (e.g., IP cameras, VoIP phones, PoE access points), connect them to any of the eight RJ45 ports. The switch will automatically detect and provide power to compatible PoE+ devices.
3. **Power On:** Flip the power switch on the rear panel to the ON position. The Power LED on the front panel should illuminate.

5. Operating the Switch

The Black Box LPB1308A-R2 is a plug-and-play device, requiring no complex configuration for basic operation.

5.1 LED Indicators

Monitor the status of the switch and connected devices using the front panel LEDs (refer to Figure 4.1).

- **Power LED:**
    - **Green:** The switch is powered on.

    - **Off:** The switch is powered off.
- **PoE LED (per port):**
    - **Green:** PoE power is being supplied to the connected device.
    - **Off:** No PoE power is being supplied.
- **Link/Act LED (per port):**
    - **Green (Solid):** A valid network link is established.
    - **Green (Flashing):** Data is being transmitted or received through the port.
    - **Off:** No network link is established.

5.2 PoE+ Functionality

The switch automatically detects and provides power to IEEE 802.3at/af compliant PoE+ devices connected to its ports. The maximum power output per port is 30 watts, with a total power budget of 62 watts for all PoE+ ports combined. Ensure the total power consumption of all connected PoE+ devices does not exceed this budget.

6. Maintenance

To ensure optimal performance and longevity of your switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Environment:** Keep the switch in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and excessive dust.
- **Cable Management:** Ensure network cables are neatly organized and not excessively bent or strained.

7. Troubleshooting

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

- **No Power:**
    - Check if the power cord is securely connected to both the switch and the power outlet.
    - Ensure the power switch on the rear panel is in the ON position.
    - Verify the power outlet is functional by plugging in another device.
- **No Link/Activity on a Port:**
    - Ensure the Ethernet cable is securely connected to both the switch port and the network device.
    - Try a different Ethernet cable.
    - Verify the connected network device is powered on and functioning correctly.
    - Try connecting to a different port on the switch.
- **PoE Device Not Receiving Power:**
    - Ensure the connected device is an IEEE 802.3at/af compliant PoE+ device.
    - Check the PoE LED for the specific port. If off, the switch may not be detecting the device as PoE compatible or the total power budget is exceeded.
    - Try connecting the PoE device to a different port.
    - If multiple PoE devices are connected, ensure the total power consumption does not exceed the 62-watt budget.

If the problem persists after trying these steps, contact Black Box technical support.

8. Specifications

Technical specifications for the Black Box LPB1308A-R2 8-Port Gigabit PoE+ Switch:

Feature	Specification
Brand	Black Box
Model Number	LPB1308A-R2
Number of Ports	8
Ethernet Speed	10/100/1000-Mbps (Gigabit Ethernet)
PoE Standard	IEEE 802.3at/af (PoE+)
PoE+ Ports	4 shielded ports
Max PoE+ Power per Port	30 Watts
Total PoE+ Power Budget	62 Watts
Interface	PoE
Case Material	Copper
Item Weight	0.27 g
Manufacturer	BLACKBOX NETWORK SERVICE
UPC	700604246889

9. Warranty and Support

For warranty information and technical support, please refer to the official Black Box website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Black Box Contact Information:

Visit www.blackbox.com for support resources, FAQs, and contact details.

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