

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [ACE](#) /

› [Ruckus ICX8200-24P 24-Port Gigabit PoE+ L3 Managed Switch User Manual](#)

**ACE ICX8200-24P**

# Ruckus ICX8200-24P 24-Port Gigabit PoE+ L3 Managed Switch User Manual

Model: ICX8200-24P

## 1. INTRODUCTION

---

This manual provides essential instructions for the installation, operation, and maintenance of your Ruckus ICX8200-24P 24-Port Gigabit PoE+ L3 Managed Switch. The ICX8200-24P is designed to deliver high-performance network connectivity with 24 Gigabit Power over Ethernet Plus (PoE+) ports and four flexible 1/10/25G SFP/SFP28 uplinks, making it suitable for enterprise, campus, and data center environments. Please read this manual thoroughly before using the device to ensure proper setup and functionality.

## 2. SAFETY INFORMATION

---

- **Electrical Safety:** Ensure the switch is connected to a properly grounded power outlet. Do not overload power circuits.
- **Ventilation:** Maintain adequate airflow around the switch. Do not block ventilation openings.
- **Environment:** Operate the switch in a clean, dry environment within specified temperature and humidity ranges. Avoid exposure to moisture or extreme temperatures.
- **Professional Installation:** Installation and servicing should be performed by qualified personnel.
- **Power Disconnection:** Always disconnect power before cleaning or performing maintenance.

## 3. PACKAGE CONTENTS

---

Verify that all items are present in your package:

- Ruckus ICX8200-24P Switch
- AC Power Cord
- Rackmount Kit (brackets and screws)

## 4. PRODUCT OVERVIEW

---

### 4.1 Front Panel



Figure 1: Front Panel of Ruckus ICX8200-24P Switch

The front panel features 24 Gigabit Ethernet RJ45 ports with PoE+ capabilities, allowing you to power compatible devices such as IP cameras, VoIP phones, and wireless access points. Additionally, there are four SFP/SFP28 uplink ports supporting 1G, 10G, and 25G connectivity for high-speed network aggregation. A USB-C console port and a USB-A storage port are also located on the front for management and file transfer.

## 4.2 Rear Panel



Figure 2: Rear Panel of Ruckus ICX8200-24P Switch

The rear panel includes the AC power input connector and cooling fans, which ensure optimal operating temperature for the device.

## 5. SETUP

---

### 5.1 Rack Mounting

1. Attach the provided rackmount brackets to the sides of the switch using the included screws.
2. Secure the switch into a standard 19-inch equipment rack, ensuring it occupies 1U of space.
3. Ensure sufficient clearance for airflow around the front and rear panels.

### 5.2 Power Connection

1. Connect the AC power cord to the power input on the rear panel of the switch.
2. Plug the other end of the power cord into a grounded electrical outlet.
3. The switch will power on automatically. Observe the power indicator LED on the front panel.

### 5.3 Network Connections

1. Connect network devices (computers, servers, IP phones, cameras) to the 24 Gigabit RJ45 ports using standard Ethernet cables.
2. For high-speed connections to other switches or routers, insert compatible SFP/SFP28 transceivers into the uplink ports and connect fiber optic cables.

### 5.4 Console Connection (Initial Configuration)

For initial configuration or command-line interface (CLI) access:

- Connect a USB-C cable from your computer to the USB-C console port on the front panel.

- Alternatively, use an RJ45 serial console cable to connect to the dedicated console port.
- Configure your terminal emulation software (e.g., PuTTY, Tera Term) with the appropriate serial settings (typically 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control).

## 6. OPERATING INSTRUCTIONS

---

### 6.1 Initial Access and Management

The Ruckus ICX8200-24P can be managed via:

- **Web-based Graphical User Interface (GUI):** Access the switch's IP address through a web browser for intuitive configuration.
- **Command Line Interface (CLI):** Use the console port or Telnet/SSH for advanced configuration.
- **Simple Network Management Protocol (SNMP):** Integrate with network management systems.

### 6.2 Power over Ethernet Plus (PoE+)

The switch supports 802.3at PoE+ standard, providing up to 30W per port with a total budget of 370W. Ensure connected devices are PoE+ compatible. The switch automatically detects and powers PoE-enabled devices.

### 6.3 Layer 2 and Layer 3 Features

The ICX8200-24P offers comprehensive Layer 2 and Layer 3 capabilities:

- **VLANs:** Create Virtual Local Area Networks to segment traffic and enhance security.
- **Quality of Service (QoS):** Prioritize critical network traffic for optimal performance.
- **Link Aggregation:** Combine multiple physical links for increased bandwidth and redundancy.
- **Spanning Tree Protocols (RSTP, MSTP):** Prevent network loops and ensure network resilience.
- **Layer 3 Routing:** Supports IPv4/IPv6 static routing and RIP for inter-VLAN routing and network segmentation.
- **Jumbo Frames:** Supports jumbo frames up to 9216 bytes for efficient data transfer.

### 6.4 Security Features

Enhance network security with features such as:

- **802.1X Port-based Authentication:** Control network access for connected devices.
- **MAC Authentication:** Authenticate devices based on their MAC addresses.
- **Access Control Lists (ACLs):** Filter network traffic based on defined rules.
- **AES Encryption:** Secure management traffic.

## 7. MAINTENANCE

---

- **Firmware Updates:** Regularly check the manufacturer's website for the latest firmware versions to ensure optimal performance and security. Follow the provided instructions for firmware upgrades.
- **Cleaning:** Keep the switch free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Environmental Monitoring:** Ensure the operating environment remains within specified temperature and humidity limits to prevent overheating and component damage.

## 8. TROUBLESHOOTING

---

### 8.1 No Power

- Verify the power cord is securely connected to both the switch and the power outlet.
- Check if the power outlet is functional by plugging in another device.
- Ensure the power supply unit is working correctly.

### 8.2 No Network Connectivity

- Check the Ethernet cables for proper connection and damage.
- Verify the link/activity LEDs on the switch ports are illuminated.
- Confirm IP address, subnet mask, and gateway settings on connected devices and the switch.
- Ensure VLAN configurations are correct if applicable.

### 8.3 PoE Devices Not Powering On

- Ensure the connected device is PoE+ (802.3at) compatible.
- Check the switch's PoE budget utilization to ensure sufficient power is available.
- Verify the Ethernet cable is capable of carrying power (Cat5e or higher recommended).

### 8.4 Console Access Issues

- Confirm the console cable is correctly connected.
- Verify the terminal emulation software settings (baud rate, data bits, parity, stop bits, flow control).
- Ensure the correct COM port is selected on your computer.

## 9. SPECIFICATIONS

---

Feature	Description
Model	ICX8200-24P
Ports	24 x 10/100/1000Base-T Gigabit Ethernet RJ45 PoE+ ports
Uplink Ports	4 x 1/10/25G SFP/SFP28
PoE Standard	IEEE 802.3at PoE+
PoE Budget	370W
Form Factor	1U Rackmount
Console Ports	1 x USB-C, 1 x RJ45 Serial
RAM	4GB
MAC Address Table Size	32K entries
Jumbo Frame Support	Up to 9216 bytes

Feature	Description
Layer 3 Features	IPv4/IPv6 Static Routing, RIP
Security Features	802.1X, MAC Authentication, AES Encryption, ACLs
Dimensions (H x W x D)	1.73 x 17.32 x 11.02 inches (4.4 x 44 x 28 cm)
UPC	199240289655

## 10. WARRANTY AND SUPPORT

---

The Ruckus ICX8200-24P is eligible for Cloud Care pre-configured bundles, which may include extended support and services. For specific warranty details, technical assistance, or customer support, please refer to the documentation provided with your purchase or contact ACE/Ruckus customer service directly. Keep your purchase receipt and product serial number handy when contacting support.