RUCKUS ICX 8200 Switch Quick Setup Guide

The *RUCKUS ICX 8200 Quick Setup Guide*provides instructions to help users get started with the ICX8200-C08PF, ICX8200-C08PFV, ICX8200-C08ZP, ICX8200-C08ZP-V, ICX8200-24, ICX8200-24F, ICX8200-24FX, ICX8200-24P, ICX8200-24PV, ICX8200-24ZP, ICX8200-24ZP-V, ICX8200-24XP2, ICX8200-48, ICX8200-48F, ICX8200-48P, ICX8200-48P-V, ICX8200-48PF, ICX8200-48PF-V, ICX8200-48PF2, ICX8200-48PF2-V, ICX8200-48NP2, ICX8200-48ZP2, and ICX8200-48ZP2-V switches.

For more information on advanced configurations and management options, refer to RUCKUS ICX FastIron user documentation available at: https://support.ruckuswireless.com/documents.

Package Contents

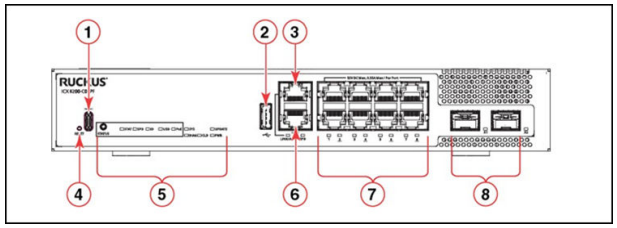
The RUCKUS ICX 8200 shipping box includes all of the following items:

- The RUCKUS ICX 8200 device
- An accessory kit containing the following items:
  - Two-post rack kit (ICX7000-RMK) containing four rack-mounting screws and four cage nuts (included only with 24-port and 48-port models)
  - Rack-mounting kit containing two L-shaped mounting brackets and two sets of eight sink-head screws (included only with 24-port and 48-port models)
  - Wall-mounting kit containing two wall-mount screws and two plastic anchors (not included with ICX 8200-24PV)
  - One power cord retaining clip
  - One USB Type-C to USB Type-A cable (included only with ICX8200-24PV and ICX8200-C08PFV)
  - One US AC power cord, shielded (included only with ICX8200-24PV and ICX8200-C08PFV)
  - One RJ-45-to-DB9 adapter (not included with ICX8200-24PV and ICX8200-C08PFV)
  - Four rubber feet (included only with ICX8200-C08PF, ICX8200-C08PFV, ICX8200-C08ZP, and ICX8200-C08ZP-V)
  - One grounding screw with washer (included only with ICX8200-24XP2, ICX8200-48NP2, ICX8200-48PF2, ICX8200-48PF2-V, ICX8200-48ZP2, and ICX8200-48ZP2-V)
  - RUCKUS AV Quick Setup Insert document (included only with ICX8200-24PV and ICX8200-C08PFV)
  - China ROHS sheet
  - Read Me First document

Device Overview

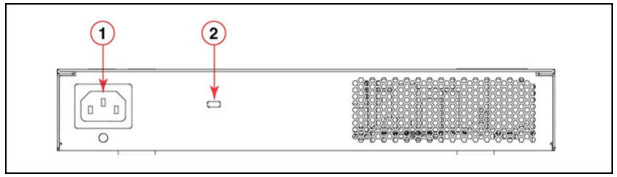
The RUCKUS ICX 8200 is a high-density enterprise access switch that offers 10, 100, and 1000 Mbps and 1, 2.5, 5, 10, and 25 Gigabit Ethernet (GbE) line rates, low latency store-and-forward switching, and up to 720 Gbps throughput for campus LAN environments. The RUCKUS ICX 8200 family switches offer versatile connectivity with SFP, SFP+, and SFP28 ports supporting 1/10/25-GbE transceivers, plus copper ports up to 10 Gbps with PoE/PoE++.

FIGURE 1 Port-Side View of the RUCKUS ICX8200-C08PF



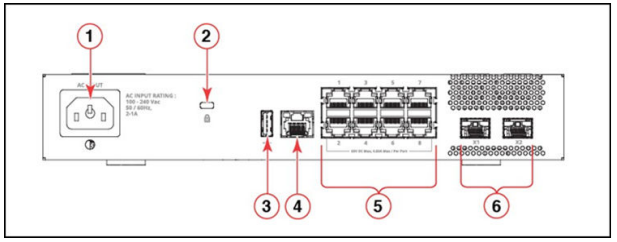
1. USB Type-C console port 5
2. USB port (for external disk drive)
3. Management port (RJ-45)
4. Reset button
5. Status mode button and LEDs
6. RJ-45 console port
7. Slot 1: 10/100/1000 Mbps RJ-45 PoE+ ports
8. Slot 2: 1/10 Gbps SFP+ stacking/uplink ports

FIGURE 2 Nonport-Side View of the RUCKUS ICX8200-C08PF



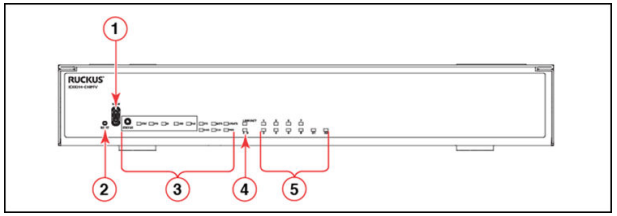
1. AC power supply socket
2. Kensington security slot

FIGURE 3 Port-Side View of the RUCKUS ICX8200-C08PFV



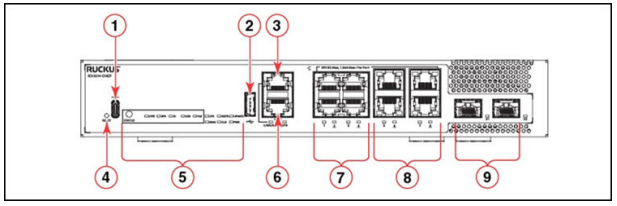
1. AC power socket
2. Kensington lock slot
3. USB port (for external disk drive)
4. Management port (RJ-45)
5. Slot 1: 10/100/1000 Mbps RJ-45 PoE+ ports
6. Slot 2: 1/10 Gbps SFP+ stacking/uplink ports

FIGURE 4 Nonport-side View of the RUCKUS ICX8200-C08PFV



1. USB port (for external disk drive)
2. Reset button
3. Status mode button and LEDs
4. LINK/ACT (link/activity) and SPD (speed) management port LEDs
5. Port link/activity LEDs

FIGURE 5 Port-Side View of the RUCKUS ICX8200-C08ZP and ICX8200-C08ZP-V

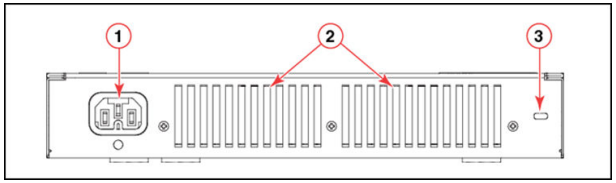


1. USB Type-C console port
2. USB port (for external disk drive)

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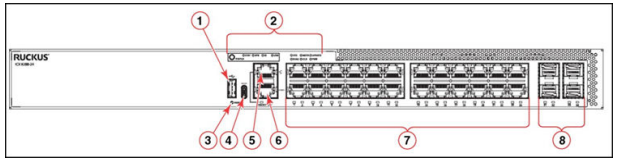
3. Management port (RJ-45)
4. Reset button
5. Status mode button and LEDs
6. RJ-45 console port
7. Slot 1: 100/1000/2500 Mbps RJ-45 PoE++ ports
8. Slot 1: 100 Mbps/1/2.5/5/10 Gbps RJ-45 PoE++ ports
9. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 6 Nonport-side View of the RUCKUS ICX8200-C08ZP and ICX8200-C08ZP-V



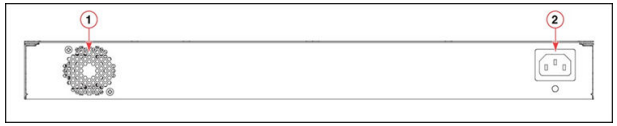
1. AC power supply socket
2. Cooling fins
3. Kensington lock slot

FIGURE 7 Port-Side View of the RUCKUS ICX8200-24



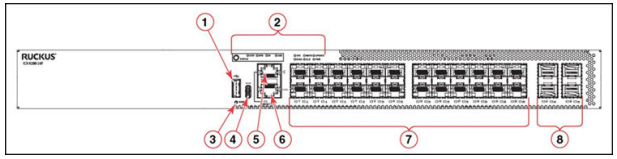
1. USB port (for external disk drive)
2. Status mode button and LEDs
3. Reset button
4. Management port (RJ-45)
5. USB Type-C console port
6. RJ-45 console port
7. Slot 1: 10/100/1000 Mbps RJ-45 ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 8 Nonport-side View of the RUCKUS ICX 8200-24



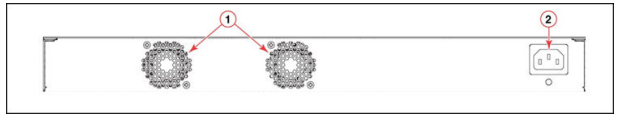
1. Fan vent
2. AC power supply socket

FIGURE 9 Port-Side View of the RUCKUS ICX8200-24F



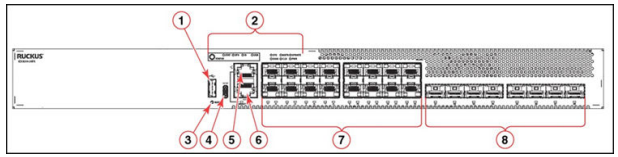
1. USB port (for external disk drive)
2. Status mode button and LEDs
3. Reset button
4. USB Type-C console port
5. Management port (RJ-45)
6. RJ-45 console port 3 Reset button
7. Slot 1: 1 Gbps SFP ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 10 Nonport-side Port-Side View of the RUCKUS ICX8200-24F



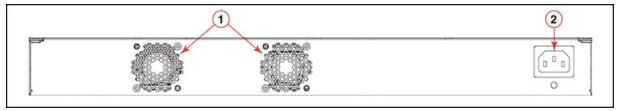
1. Fan vents
2. AC power supply socket

FIGURE 11 Port-Side View of the RUCKUS ICX8200-24FX



1. USB port (for external disk drive)
2. Status mode button and LEDs
3. Reset button
4. USB Type-C console port
5. Management port (RJ-45)
6. RJ-45 console port
7. Slot 1: 1/10 Gbps SFP+ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

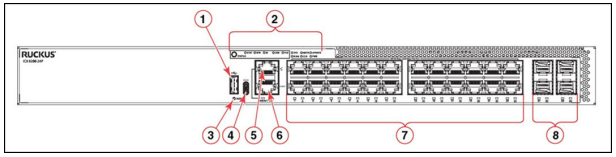
FIGURE 12 Nonport-side View of the RUCKUS ICX8200-24FX



1. Fan vents
2. AC power supply socket

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FIGURE 13 Port-Side View of the RUCKUS ICX8200-24P



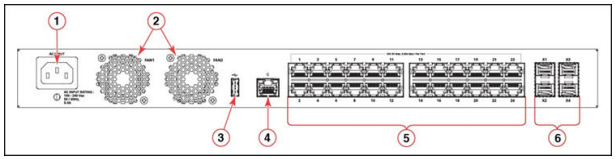
1. USB port (for external disk drive)
2. Status mode button and LEDs
3. Reset button
4. USB Type-C console port
5. Management port (RJ-45)
6. RJ-45 console port
7. Slot 1: 10/100/1000 Mbps RJ-45 PoE+ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 14 Nonport-side View of the RUCKUS ICX8200-24P



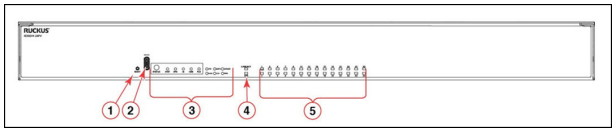
1. Fan vents
2. AC power supply socket

FIGURE 15 Port-Side View of the RUCKUS ICX8200-24PV



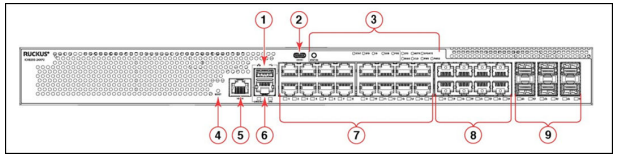
1. AC power socket
2. Fan vents
3. USB port (for external disk drive)
4. Management port (RJ-45)
5. Slot 1: 10/100/1000 Mbps RJ-45 PoE+ ports
6. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 16 Nonport-side View of the RUCKUS ICX8200-24PV



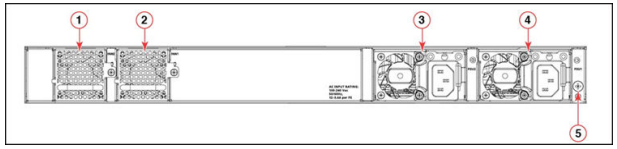
1. Reset button
2. USB Type-C console port
3. Status mode button and LEDs
4. LINK/ACT (link/activity) and SPD (speed) management port LEDs
5. Port link/activity LEDs

FIGURE 17 Port-Side View of the RUCKUS ICX8200-24XP2



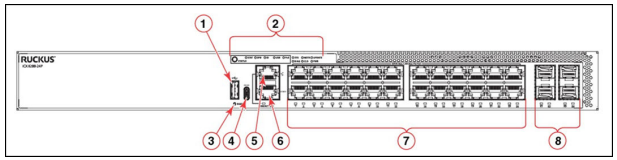
1. USB port (for external disk drive)
2. USB Type-C console port
3. Status mode button and LEDs
4. Reset button
5. RJ-45 console port
6. Management port (RJ-45)
7. Slot 1: 100/1000/2500 Mbps RJ-45 PoE++ ports
8. Slot 1: 100 Mbps/1/2.5/5/10 Gbps RJ-45 PoE++ ports
9. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 18 Nonport-side View of the RUCKUS ICX8200-24XP2



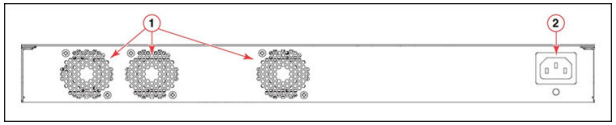
1. Fan assembly 2
2. Fan assembly 1
3. Power supply unit 2
4. Power supply unit 1
5. Grounding terminal

FIGURE 19 Port-Side View of the RUCKUS ICX8200-24ZP and ICX8200-24ZP-V



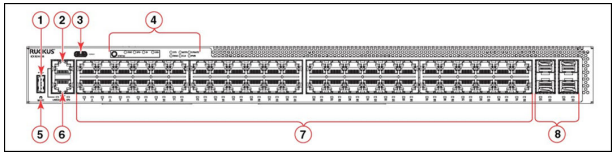
1. USB port (for external disk drive)
2. Status mode button and LEDs
3. Reset button
4. USB Type-C console port
5. Management port (RJ-45)
6. RJ-45 console port
7. Slot 1: 100/1000/2500 Mbps RJ-45 PoE++ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 20 Nonport-side View of the RUCKUS ICX8200-24ZP and ICX8200-24ZP-V



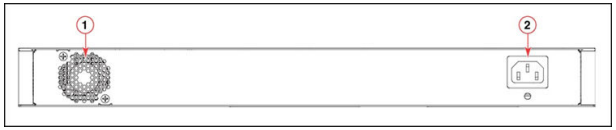
1. Fan vents
2. AC power supply socket

FIGURE 21 Port-Side View of the RUCKUS ICX8200-48



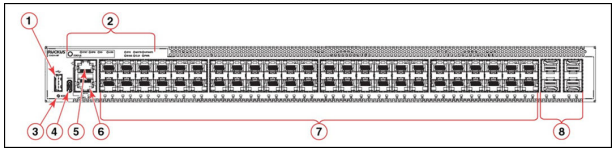
1. USB port (for external disk drive)
2. Management port (RJ-45)
3. USB Type-C console port
4. Status mode button and LEDs
5. Reset button
6. RJ-45 console port
7. Slot 1: 100/1000 Mbps RJ-45 PoE++ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 22 Nonport-side View of the RUCKUS ICX8200-48



1. Fan vent
2. AC power supply socket

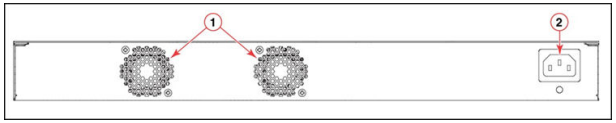
FIGURE 23 Port-Side View of the RUCKUS ICX8200-48F



1. USB port (for external disk drive)
2. Status mode button and LEDs
3. Reset button
4. USB Type-C console port
5. Management port (RJ-45)
6. RJ-45 console port
7. Slot 1: 1 Gbps SFP ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

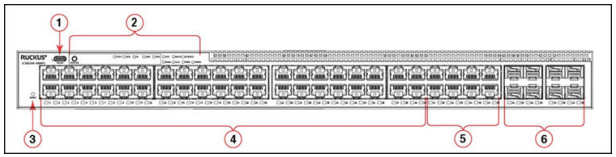
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FIGURE 24 Nonport-side View of the RUCKUS ICX8200-48F



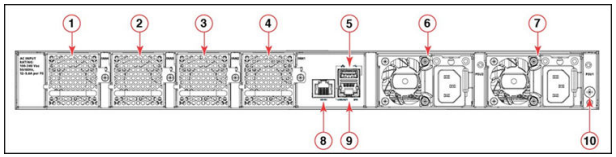
1. Fan vents
2. AC power supply socket

FIGURE 25 Port-Side View of the ICX8200-48NP2



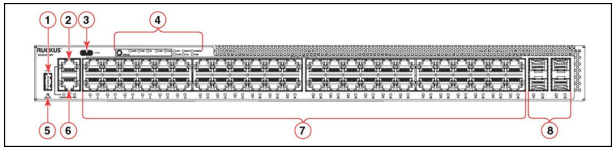
1. USB Type-C console port
2. Status mode button and LEDs
3. Reset button
4. Slot 1: 100 Mbps/1/2.5/5 Gbps RJ-45 PoE++ ports
5. Slot 1: 100 Mbps/1/2.5/5/10 Gbps RJ-45 PoE++ ports
6. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 26 Nonport-side View of the RUCKUS ICX8200-48NP2



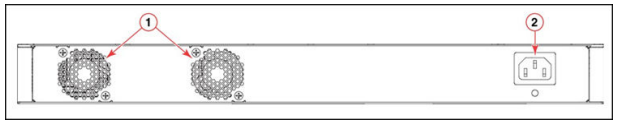
1. Fan assembly 4
2. Fan assembly 3
3. Fan assembly 2
4. Fan assembly 1
5. USB port (for external disk drive)
6. Power supply unit 2
7. Power supply unit 1
8. RJ-45 console port
9. Management port (RJ-45)
10. Grounding terminal

FIGURE 27 Port-Side View of the RUCKUS ICX8200-48P and ICX8200-48P-V



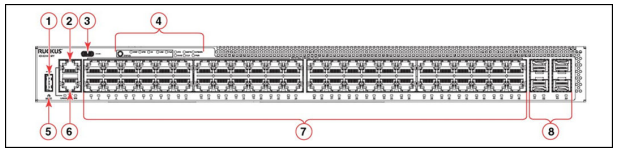
1. USB port (for external disk drive)
2. Management port (RJ-45)
3. USB Type-C console port
4. Status mode button and LEDs
5. Reset button
6. RJ-45 console port
7. Slot 1: 100/1000 Mbps RJ-45 PoE+ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 28 Nonport-side View of the RUCKUS ICX8200-48P and ICX8200-48P-V



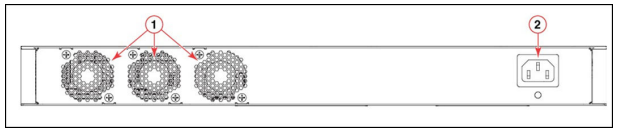
1. Fan vents
2. AC power supply socket

FIGURE 29 Port-Side View of the RUCKUS ICX8200-48PF and ICX8200-48PF-V



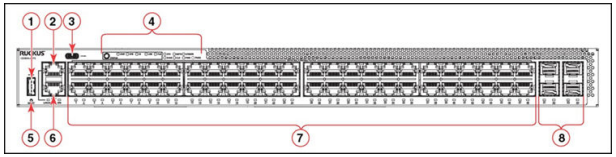
1. USB port (for external disk drive)
2. Management port (RJ-45)
3. USB Type-C console port
4. Status mode button and LEDs
5. Reset button
6. RJ-45 console port
7. Slot 1: 100/1000 Mbps RJ-45 PoE+ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 30 Nonport-side View of the ICX8200-48PF and ICX8200-48PF-V



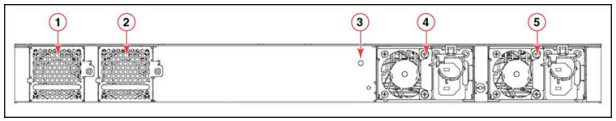
1. Fan vents
2. AC power supply socket

FIGURE 31 Port-Side View of the RUCKUS ICX8200-48PF2 and ICX8200-48PF2-V



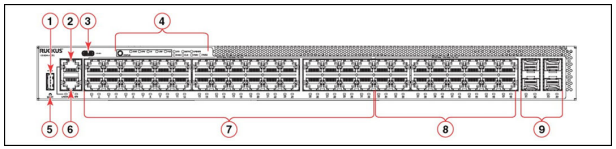
1. USB port (for external disk drive)
2. Management port (RJ-45)
3. USB Type-C console port
4. Status mode button and LEDs
5. Reset button
6. RJ-45 console port
7. Slot 1: 10/100/1000 Mbps RJ-45 PoE++ ports
8. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

FIGURE 32 Nonport-side View of the ICX8200-48PF2 and ICX8200-48PF2-V



1. Fan assembly 2
2. Fan assembly 1
3. Grounding terminal
4. AC power supply socket 2
5. AC power supply socket 1

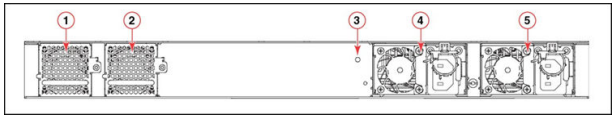
FIGURE 33 Port-Side View of the RUCKUS ICX8200-48ZP2 and ICX8200-48ZP2-V



1. USB port (for external disk drive)
2. Management port (RJ-45)
3. USB Type-C console port
4. Status mode button and LEDs
5. Reset button
6. RJ-45 console port
7. Slot 1: 10/100/1000 Mbps RJ-45 PoE++ ports
8. Slot 1: 10/100/1000/2500 Mbps RJ-45 PoE++ ports
9. Slot 2: 1/10/25 GbE SFP28 stacking/uplink ports

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FIGURE 34 Nonport-side View of the RUCKUS ICX8200-48ZP2 and ICX8200-48ZP2-V



1. Fan assembly 2
2. Fan assembly 1
3. Grounding terminal
4. AC power supply socket 2
5. AC power supply socket 1

Installing an ICX 8200 Device

Complete the following steps to install an ICX 8200 device.

1. Unbox the ICX 8200 device and secure the switch in the rack, aligning it with the desired rack units.
2. Install alternating-current (AC) power supplies in the RUCKUS ICX8200-24XP2, ICX8200-48NP2, ICX8200-48PF2, ICX8200-48PF2-V, ICX8200-48ZP2, or ICX8200-48ZP2-V switch. The RUCKUS ICX8200-24XP2, ICX8200-48NP2, ICX8200-48PF2, ICX8200-48PF2-V, ICX8200-48ZP2, and ICX8200-48ZP2-V are the only models that take an installable power supply.
3. Connect AC power cables to the power supply connectors.
4. Connect the power cables to the 100-240 VAC power source. The power sources should be on separate circuits to protect against power failure. Ensure that the power cords have a minimum service loop of 6 inches available and are routed to avoid stress.
5. After the device has booted, verify that the power and status LEDs are green or blue (ICX 8200-C08PFV and ICX 8200-24PV). The power supply LEDs display amber until power-on self-test (POST) is complete, and then change to green or blue. The switch usually requires several minutes to boot and complete POST.
6. For the first-time serial connection, access the CLI by connecting to the RJ-45 or USB Type-C console port. After you assign an IP address, you can access the system through Telnet, or RUCKUS Network Advisor.

   NOTE: To assign an IP address, you must have access to the command line interface (CLI). The CLI is a text-based interface that can be accessed through a direct serial connection to the device and through Telnet connections. The CLI is described in detail in the *RUCKUS FastIron Management Configuration Guide.*

7. Connect the serial cable to the RJ-45 or USB Type-C console port on the RUCKUS ICX 8200 switch and to an RS-232 serial port on the workstation using the RJ-45-to-DB9 adapter included in the shipping carton or a USB Type-C serial console port cable.
8. Disable any serial communication programs running on the workstation such as synchronization programs.
9. Open a terminal emulator application such as HyperTerminal on a Windows PC, or TERM, TIP, or Kermit in a UNIX environment, and configure the application as follows:
   - In a Windows environment:
     a. Baud: 9600 bps and no other value
     b. Data bits: 8
     c. Parity: None
     d. Stop bits: 1
     e. Flow control: None
   - In a UNIX environment using TIP, enter the following string at the prompt:

     ```
     tip /dev/ttyb -9600
     ```
   - If ttyb is already in use, use ttya instead and enter the following string at the prompt:

     ```
     tip /dev/ttya -9600
     ```
10. Use the console connection to log in with the default username: **super** and password: **sp-admin**. Change the credentials immediately when prompted.

    In a network with DHCP services, use any of the LAN ports on the ICX device to connect to the LAN network. The DHCP client in the ICX device is capable of obtaining an IPv4 address automatically.
11. (Optional) Manually assign an IP address through the console.
    a) Enter the following commands to access privileged EXEC mode, followed by global config mode.

    ```
    device> enable
    No password has been assigned yet...
    device# configure terminal
    device(config)#
    ```

    b) Enter the **ip dhcp-client disable** command to disable the DHCP client service.

    ```
    device(config)# ip dhcp-client
    disable
    ```

    c) Enter the **no ip dhcp-client ve default** command to disable the DHCP setting for VE interfaces.

    ```
    device(config)# no ip dhcp-client ve
    default
    ```

    d) Enter the **interface ve 1** command to enter the VE 1 configuration mode, set the IP address using the **ip address** command followed by the IP address and the subnet mask, then define the static IP route using the **ip route** command.

    ```
    device(config)# interface ve 1
    device(config-vif-1)# ip address
    192.168.100.253/24
    device(config-vif-1)# exit
    device(config)# ip route 0.0.0.0/0
    192.168.100.1
    ```

    e) Enter the **end** command to return to the privilege EXEC mode and enter the **ping** command followed by the IP address.

    ```
    device(config)# end
    device# ping 192.168.100.1
    ```

    21``````
    a) Enter the **write memory** command to save the configuration.

    ```
    device# write memory
    ```
12. Use the Gigabit Ethernet management port (RJ-45) on the RUCKUS ICX 8200 that provides an out-of-band network connection to the device. After you assign an IP address, you can access the RUCKUS ICX 8200 from anywhere in the attached network using Telnet, a web browser, or other network management tools, such as RUCKUS Network Advisor.

    NOTE:
    - To prevent unauthorized access, RUCKUS recommends that the management port only be connected to a secure private network.
    - The RUCKUS ICX 8200 does not support jumbo frames on the out-of-band management port. (Frame size greater than 1500 bytes does not ingress into the management port.)

Understanding LED Behavior

The RUCKUS ICX8200-C08PF, ICX8200-C08ZP, ICX8200-C08ZP-V, ICX8200-24, ICX8200-24F, ICX8200-24FX, ICX8200-24P, ICX8200-24XP2, ICX8200-24ZP, ICX8200-24ZP-V, ICX8200-48, ICX8200-48F, ICX8200-48NP2, ICX8200-48P, ICX8200-48P-V, ICX8200-48PF, ICX8200-48PF-V, ICX8200-48PF2, ICX8200-48PF2-V, ICX8200-48ZP2, and ICX8200-48ZP2-V have the following LEDs:

- Two management port status LEDs (green) for link/activity (LINK/ACT) and speed (SPD)
- One or two power supply unit (PSU) bicolor status LEDs (green and amber) labeled **PWR** and **PWR2** (PWR2 is only on the RUCKUS ICX8200-24XP2, ICX8200-48NP2, ICX8200-48PF2 and ICX8200-48ZP2)
- One **SYS** (system) bicolor status LED (green and amber)
- One **DIAG** (diagnostic) bicolor status LED (green and amber)
- One **MSTR** (stacking configuration) bicolor status LED (green and amber)
- One **CLD (RUCKUS One/SmartZone management)** bicolor status LED (green and amber)
- One **UPDATE** (software update) bicolor status LED (green and amber)
- Five **Status** mode LEDs (green) selected by pressing the status mode button:
  - **STAT**: Port LEDs indicate link and traffic activity.
  - **SPD**: Port LEDs indicate the link speed.
  - **ID**: Port LEDs indicate the stack unit ID when the switch is in stacking mode.
  - **USB**: Indicates files are being copied to a USB drive connected to the USB port.
  - **PoE**: Port LEDs indicate the Power-over-Ethernet mode status. PoE is supported only on the ICX8200-C08PF, ICX8200-C08ZP, ICX8200-C08ZP-V, ICX8200-24P, ICX8200-24XP2, ICX8200-24ZP, ICX8200-24ZP-V, ICX8200-48NP2, ICX8200-48P, ICX8200-48P-V, ICX8200-48PF, ICX8200-48PF-V, ICX8200-48PF2, ICX8200-48PF2-V, ICX8200-48ZP2, and ICX8200-48ZP2-V.
- Bicolor (green and amber) status LEDs for RJ-45 ports. The LED indication is dependent on the mode set by the status mode button.
- Bicolor (green and amber) status LEDs for SFP/SFP+/SFP28 ports. The LED indication is dependent on the mode set by the status mode button.

Refer to the RUCKUS ICX 8200 Switch Hardware Installation Guide for more information on the LED behavior.

For More Information

For information on how to install, configure, and manage your ICX 8200 device, refer to the RUCKUS ICX 8200 Switch Hardware Installation Guide.

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For the product data sheet, refer to https://www.ruckusnetworks.com/products/ethernet-switches/icx8200/.

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