RUCKUS ICX 8100 Switch Quick Setup Guide

The *RUCKUS ICX 8100 Quick Setup Guide* provides instructions for a user to get started with ICX 8100-C08PF, ICX 8100-C08PF-X, ICX 8100-24, ICX 8100-24-X, ICX 8100-24P, ICX 8100-24P-X, ICX 8100-48, ICX 8100-48-X, ICX 8100-48P, and ICX 8100-48P-X 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

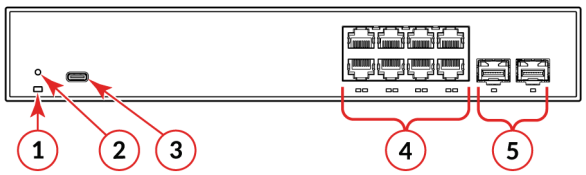
The RUCKUS ICX 8100 shipping box includes all of the following items:

- The ICX 8100 device
- An accessory kit containing the following items:
  - Rack mounting kit. The kit containing one set of eight and one set of six sink-head screws (24-port and 48-port models only)
  - Two-post rack-mounting kit. The kit containing four rack-mounting screws and four cage nuts (included only with 24-port and 48-port models)
  - Wall mounting kit containing two wall-mount screws and two plastic anchors (ICX 8100-C0PF and ICX 8100-C0PF-X models)
  - One power cord clip
  - China-RoHS Hazardous/Toxic Substance statement
  - Read Me First document

Device Overview

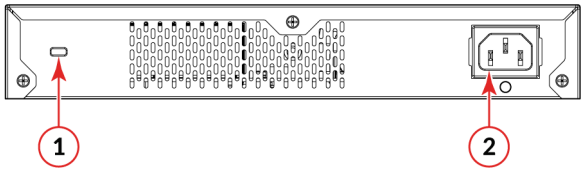
RUCKUS ICX 8100 devices offer 8, 24, or 48 1-GbE copper ports that support 10/100/1000 Mbps operation and two or four SFP/SFP+ ports that support 1/10-Gbps operation. ICX 8100-C08PF, ICX 8100-C08PF-X, ICX 8100-24P-X, ICX 8100-24P-X, ICX 8100-48P, and ICX 8100-48P-X models support IEEE 802.3bt Type 2 Class 4 PoE (up to 30W) per port.

FIGURE 1 Port-side View of ICX 8100-C08PF and ICX 8100-C08PF-X



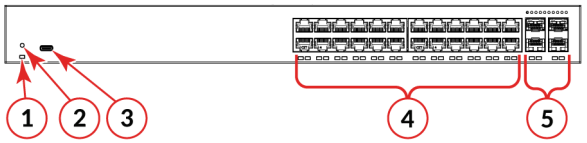
1. PWR LED
2. RESET button
3. Type-C USB console port
4. Slot 1: 10/100/1000 Mbps RJ-45 ports
5. Slot 2: 1 Gbps SFP uplink ports (ICX 8100-C08P); 10 Gbps SFP+ uplink ports (ICX 8100-C08P-X)

FIGURE 2 Nonport-side View of ICX 8100-C08PF and ICX 8100-C08PF-X



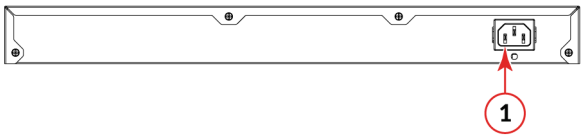
1. Kensington security slot
2. AC power supply socket

FIGURE 3 Port-side View of ICX 8100-24 and ICX 8100-24-X



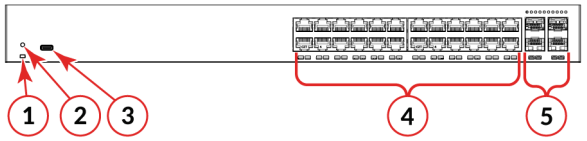
1. PWR LED
2. RESET button
3. Type-C USB console port
4. Slot 1: 10/100/1000 Mbps RJ-45 ports
5. Slot 2: 1 Gbps SFP uplink ports (ICX8100-24); 10 Gbps SFP+ uplink ports (ICX8100-24-X)

FIGURE 4 Nonport-side View of ICX 8100-24 and ICX 8100-24-X



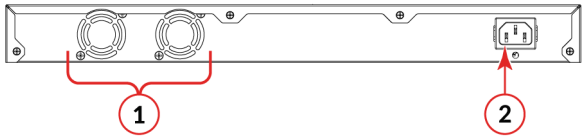
1. AC power supply socket

FIGURE 5 Port-side View of ICX 8100-24P and ICX 8100-24P-X



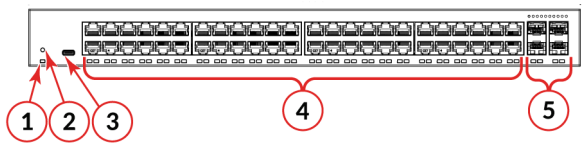
1. PWR LED
2. RESET button
3. Type-C USB console port
4. Slot 1: 10/100/1000 Mbps RJ-45 PoE ports
5. Slot 2: 1 Gbps SFP uplink ports (ICX 8100-24P); 10 Gbps SFP+ uplink ports (ICX 8100-24P-X)

FIGURE 6 Nonport-side View of ICX 8100-24P and ICX 8100-24P-X



1. Fan 2 and Fan 1
2. AC power supply socket

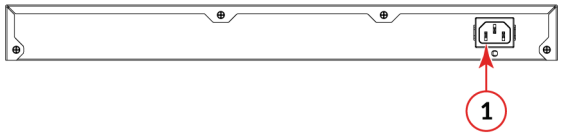
FIGURE 7 Port-side View of ICX 8100-48 and ICX 8100-48-X



1. PWR LED
2. RESET button
3. Type-C USB console port
4. Slot 1: 10/100/1000 Mbps RJ-45 ports
5. Slot 2: 1 Gbps SFP uplink ports (ICX 8100-48); 10 Gbps SFP+ uplink ports (ICX 8100-48-X)

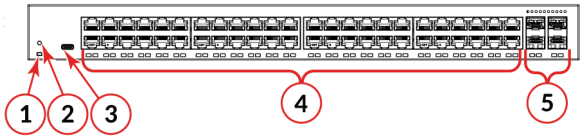
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FIGURE 8 Nonport-side View of ICX 8100-48 and ICX 8100-48-X



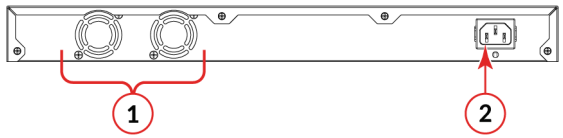
1. AC power supply socket

FIGURE 9 Port-side View of ICX 8100-48P and ICX 8100-48P-X



1. PWR LED
2. RESET button
3. Type-C USB console port
4. Slot 1: 10/100/1000 Mbps RJ-45 PoE ports
5. Slot 2: 1 Gbps SFP uplink ports (ICX 8100-48P); 10 Gbps SFP+ uplink ports (ICX 8100-48P-X)

FIGURE 10 Nonport-side View of ICX 8100-48P and ICX 8100-48P-X



1. Fan 2 and Fan 1
2. AC power supply socket

Installing an ICX 8100 Device

Complete the following steps to install an ICX 8100 device.

1. Unbox the ICX 8100 device and secure the switch in the rack, aligning it with the desired rack units.
2. Power up the switch by connecting the power cord in the AC power supply socket of the switch and to a power outlet.
3. Observe the **PWR** LED blinking green during the 2-3 minute power-on process.
4. Verify the **PWR** LED turns blinking green, indicating the booting process has been completed.
5. Use the console connection to log in with the default username: **super** and password: **sp-admin**. Change the credentials immediately when prompted.
   a) Connect your computer to the console port of the switch using a customer-provided console cable with a USB Type-C connector.
   b) Using a terminal application like PuTTY or similar to establish the serial connection, log in to the ICX device.

   NOTE: Ensure 8-bit no flow control, check bit, and 9600 baud rate are configured.

   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.
6. (Optional) Manually assign an IP address through the console.
   a) Enter the following commands to 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 mode and enter the **ping** command followed by the IP address.

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

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

```
device# write memory
```

Understanding LED Behavior

The RUCKUS ICX 8100 device has one power supply unit (PSU) bicolor status LED (green and amber) labeled **PWR** and bicolor (green and amber) status LEDs for RJ-45 ports. The RJ-45 LED indication is dependent on the mode set by the **led mode** command. For more information on the **led mode** command, refer to *RUCKUS FastIron Command Reference Guide*.

TABLE 1 Status LEDs During Normal Operation

LED	Description
Power (PWR) (Bicolor LED)	• Off: System is not powered. • Solid Amber: Power supply is faulty, not in factory reset mode, Cloud connection or Cloud configuration status can be any. • Flashing Amber: Factory reset mode, power supply can be good or faulty, Cloud connection or Cloud configuration status can be any. • Solid Green: Power supply is OK. no Cloud connection. • Alternation Flashing Green and Amber: Power supply is OK. Cloud connection in progress or Cloud configuration is in progress.
Port Status (Default Mode)	Port status mode displays the link status and activities of each port. Port Status mode is the default mode. Port Status mode LED displays the following: • Off - Port is not connected; no valid link • Steady Green - Link is up and has no traffic. • Blinking Green - Link is up and traffic/packets are transmitted or received. The port status mode is selected using the following CLI command: `device# led mode stat`
Port Speed (Bicolor LED)	Port Speed status mode displays the speed setting of each downlink port. Each port LED displays the following: • Off - port is not connected • Steady green = Port is configured for 1000 Mbps • Blinking green = Port is configured for 100 Mbps. • Steady amber = Port is configured for 10 Mbps. The speed mode is selected using the following CLI command: `device# led mode spd`

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TABLE 1 Status LEDs During Normal Operation (continued)

LED	Description
PoE Status (Bicolor LED)	• Off (no light): Port is not providing PoE power because of one of the following reasons: – PoE is disabled. – There is no device connected to the port. – The device connected to the port is not a PoE device. • Steady Green: PoE is on. Port is providing power. • Blinking Amber: PoE is off due to a fault or not enough PoE power budget set for the port. The PoE mode is selected using the following CLI command: `device# led mode poe`

For More Information

For information on how to install, configure, and manage your ICX 8100 device, refer to the RUCKUS ICX 8100 Switch Hardware Installation Guide.

For the product data sheet, refer to https://www.ruckusnetworks.com/products/ethernet-switches/icx8100/.

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