Brocade ICX7150-C12P-2X1G

Ruckus Brocade ICX 7150 Compact Switch (ICX7150-C12P-2X1G) Instruction Manual

Brand: Brocade | Model: ICX7150-C12P-2X1G

1. Introduction

The Ruckus Brocade ICX 7150 Compact Switch combines enterprise-class switching features with high performance, offered at an entry-level price point. This model, the ICX7150-C12P-2X1G, is part of the compact series, designed for environments where silent operation is crucial, such as classrooms, hospitality suites, retail sites, and hospitals, due to its fanless design.

Key Features:

- 12x 10/100/1000 Mbps POE+ RJ-45 ports.
- 124 W power budget.
- 2x 10/100/1000 Mbps uplink RJ-45 ports.
- 2x 1/10 GbE uplink/stacking SFP/SFP+ ports.
- PoE+ on all 12 ports to power devices like wireless APs, VoIP phones, lighting fixtures, or surveillance cameras.

2. Product Overview

The ICX 7150 Compact Switch features a robust design with various ports and indicators for efficient network management.



Front Panel: The front panel of the switch provides all the necessary connectivity and status indicators. It includes 12 RJ-45 ports that support 10/100/1000 Mbps speeds and PoE+ capabilities, allowing them to power compatible devices directly through the Ethernet cable. Additionally, there are 2 dedicated 10/100/1000 Mbps RJ-45 uplink ports and 2

SFP/SFP+ ports that support both 1 GbE and 10 GbE for high-speed uplink or stacking connections. Status LEDs for power, PoE status, and link/activity are also present to provide immediate visual feedback on the switch's operational state.

3. Setup

3.1. Unpacking and Inspection

- Carefully unpack the switch and all accessories.
- Verify that all components listed in the packing list are present and undamaged.
- Report any missing or damaged items to your vendor immediately.

3.2. Connecting Power

1. Connect the provided power adapter to the DC input port on the switch.
2. Plug the power cord into a suitable AC power outlet.
3. Observe the Power LED on the front panel; it should illuminate to indicate the unit is receiving power.

3.3. Network Connections

1. Connect your network devices (computers, servers, etc.) to the 10/100/1000 Mbps RJ-45 ports using standard Ethernet cables.
2. For devices requiring Power over Ethernet (PoE+), ensure they are connected to the PoE+ enabled RJ-45 ports. The switch will automatically detect and provide power to compatible devices.
3. Use the dedicated uplink RJ-45 ports or SFP/SFP+ ports to connect the switch to your core network, router, or other switches for higher bandwidth.
4. For SFP/SFP+ connections, insert compatible SFP/SFP+ transceivers into the slots before connecting fiber optic cables.

4. Operating Instructions

The Ruckus Brocade ICX 7150 Compact Switch is designed for ease of use, supporting plug-and-play functionality for basic network connectivity. For advanced configurations and management, the switch offers a comprehensive set of features.

4.1. Basic Operation

- Once powered on and connected, the switch will automatically detect connected devices and establish network links.
- The Link/Activity LEDs on each port will indicate the connection status and data activity.
- For PoE+ enabled ports, the PoE status LEDs will indicate if power is being supplied to the connected device.

4.2. Advanced Features

The ICX 7150 supports advanced features for enhanced network control and reliability:

- **PoE/PoE+ Management:** Configure power allocation per port, set power priorities, and monitor PoE usage.
- **VLANs:** Create Virtual Local Area Networks to segment network traffic for improved security and performance.
- **Stack-Level High Availability:** Ensures continuous service by allowing multiple switches to operate as a single logical unit with redundancy.
- **In-Service Software Upgrade (ISSU):** Enables firmware upgrades without interrupting network services, ensuring

business continuity.

Refer to the comprehensive user guide available on the Brocade support website for detailed instructions on configuring these advanced features.

5. Specifications

Attribute	Value
Model Number	ICX7150-C12P-2X1G
Brand	Brocade
Number of Ports	12
Interface Type	PoE, SFP
Data Transfer Rate	1000 Megabits Per Second
PoE+ Power Budget	124 W
Case Material	Plastic
Item Weight	6.42 pounds
Product Dimensions	14 x 13 x 5 inches
Upper Temperature Rating	40 Degrees Celsius
Voltage	230 Volts (AC)
UPC	098379122171

6. Maintenance

To ensure optimal performance and longevity of your Ruckus Brocade ICX 7150 Compact Switch, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and debris to maintain proper airflow, even in fanless models.
- **Proper Ventilation:** Although designed for fanless operation, ensure the switch is placed in an environment with adequate air circulation to prevent overheating.
- **Firmware Updates:** Periodically check the official Brocade support website for the latest firmware updates. Keeping the firmware up-to-date ensures access to the newest features, security patches, and performance improvements. Refer to the operating instructions for ISSU (In-Service Software Upgrade) procedures.
- **Cable Management:** Ensure all network and power cables are neatly organized and securely connected to prevent accidental disconnections or damage.

7. Troubleshooting

If you encounter issues with your Ruckus Brocade ICX 7150 Compact Switch, consider the following troubleshooting steps:

- **No Power:** Check if the power adapter is securely connected to both the switch and a working power outlet. Verify the Power LED is illuminated.

- **No Link/Activity:** Ensure Ethernet cables are properly connected to both the switch port and the network device. Check the Link/Activity LED for the specific port; if it's off, try a different cable or port.
- **PoE Device Not Powering On:** Confirm the device is PoE+ compatible. Check the PoE status LED for the port. Ensure the total power budget (124 W) is not exceeded by all connected PoE devices.
- **Slow Network Performance:** Verify that all connected devices and cables support Gigabit Ethernet speeds. Check for excessive network traffic or potential loops in the network configuration.
- **Intermittent Connectivity:** Inspect cables for damage. Ensure the switch is in a stable environment and not subject to extreme temperatures or physical disturbances.
- **Accessing Management Interface:** If using the management software, ensure your computer is on the same network segment as the switch and that the switch has a valid IP address.

For more complex issues, refer to the detailed troubleshooting section in the full user manual or contact Brocade technical support.

8. Warranty and Support

For information regarding product warranty, technical support, and service options for your Ruckus Brocade ICX 7150 Compact Switch, please refer to the official Brocade support website or contact your authorized reseller. Brocade is committed to providing service resiliency and business continuity through features like stack-level high availability and In-Service Software Upgrade (ISSU).

9. Related Videos

Product Overview Video

This video provides a general overview of the product, highlighting its key features and design. It is created by Amazon Product Imaging (Seller).

Seamless Performance in a Compact Package - Top Tier Switch!

This video showcases the seamless performance and compact design of the switch, emphasizing its top-tier capabilities. It is relevant to the Ruckus Brocade ICX 7150 Compact Switch.

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Example: How do I reset this device or fix this error?

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