Core switch not emitting light

Overview

Core Switch Issue Hi We're facing an issue on core switch nexus 9504 S/N: FOX2148PHMM PN:800-41485-01L0 and PID: N9K-C9504. Troubleshoot Switch Port and In.

Key Takeaways

A core switch not emitting light usually indicates a power, connection, or hardware fault that can often be resolved through systematic troubleshooting.Check Power Supply and Connections

Ensure the switch is receiving proper power. Use the original or compatible AC adapter and verify it is not damaged, frayed, or loose. Unplug the adapter from both the wall and the switch, wait 30 seconds, then reconnect and press the power button to attempt a restart . If the device still shows no light, try a different outlet or USB-C power source to rule out adapter issues .

Perform a Forced Reset

Some switches require a forced shutdown to reset internal circuits. Hold the power button for at least 20 seconds, release, then press it once to power on. This can restore LED activity if the device was stuck in a sleep or unresponsive state .

Inspect Internal Connections

If the switch has been modified or disassembled, check internal ribbon cables, flex connectors, and LED traces. Loose or misaligned connections can prevent LEDs from lighting up even if the device powers on . Cleaning contacts with isopropyl alcohol can remove corrosion or dirt that may block electrical signals.

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Firmware and Software Checks

For devices with firmware-controlled LEDs, ensure the firmware is up to date. Conflicts or outdated software can prevent lights from functioning. Re-syncing or updating the device through official software may restore LED operation .

Hardware Faults

If the above steps fail, the issue may be a deeper hardware fault, such as a blown LED circuit, damaged modchip, or internal component failure . In such cases, professional repair or sending the device to the manufacturer for service is recommended.

Summary
• Verify power supply and connections.

• Perform a forced reset.

• Inspect and clean internal connectors.

• Update firmware or re-sync the device.

• Seek professional repair if LEDs remain unresponsive. Following these steps addresses the most common causes of a core switch not emitting light and can help determine whether the problem is simple or requires service.

Article Content

Troubleshoot Switch Port and Interface Problems

PrerequisitesTroubleshoot The Physical LayerTroubleshoot The Most Common Port and Interface Commands For Cisco iOSUnderstand The Specific Port and Interface Counter Output For Cisco iOSCommon System Error MessagesCommon Port and Interface ProblemsRelated InformationThis table shows the most common commands used to troubleshoot the port or interface problems on switches that run Cisco IOS System Software on the Supervisor. Note: The right hand column on the next table gives a brief description of what the command does and lists any exceptions to the use per platform. If you have the output of the supported com...See more on cisco Published: Nov 3, 2023Electrical 101

How to Troubleshoot Switches - Electrical 101

Discover effective troubleshooting techniques for switches. Our comprehensive guide helps you identify and resolve common issues

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