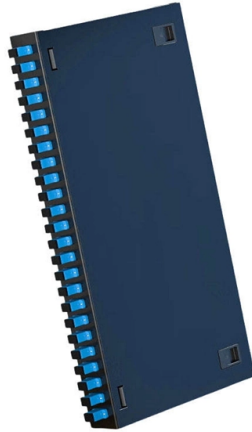


Switch optical port status down



Overview

The "down/down" status on the switch interface suggests a layer 1 issue, possibly a faulty cable or port.

Key Takeaways

An optical port on a switch may show as down due to hardware faults, misconfigurations, or connectivity issues, and can be diagnosed using CLI commands or dashboard monitoring tools.

To determine why an optical port is down, you can use either the switch dashboard or the Command Line Interface (CLI):

- Navigate to Switching > Monitor > Switches and select the switch.
 - Click the Ports tab and select the optical port.
 - Review Digital Optical Monitoring (DOM) metrics such as transmit/receive power, temperature, voltage, and laser bias current. Alerts indicate if any parameter exceeds thresholds, which can help identify issues like low signal or module failure.
- CLI Monitoring:

- Log in to the switch console and enter Privileged EXEC mode.
- Use commands like `show interface` or `show fiber-ports-optical-transceiver` to view the port's operational status, link state, module type, and real-time metrics.

- A down status may appear as link state: down or interface administratively down.

Common Causes of Optical Port Down

- Hardware Failures: Faulty SFP modules, damaged fiber cables, or defective switch ports can cause the interface to go down .

- Software or Configuration Issues: Mismatched speed, duplex settings, or negotiation modes between the local and peer devices can prevent the link from coming up .

- Environmental Factors: Excessive temperature, voltage fluctuations, or improper handling of optical modules may trigger a down status .

- Module Compatibility: Using non-certified or incompatible SFPs may result in the port not activating or showing errors .

Troubleshooting Steps

- Verify physical connections: Ensure the fiber cable is properly seated and undamaged.

- Check module health: Review DOM metrics for abnormal readings in power, temperature, or voltage .

- Confirm configuration: Match interface speed, duplex, and negotiation settings with the connected device .

- Replace hardware if needed: Swap the SFP module or fiber cable to isolate faulty components.

- Monitor logs: Check switch logs for errors or alarms related to the optical port. By systematically checking physical connections, module health, and configuration, most optical port down issues can be identified and resolved efficiently.

Article Content

Troubleshooting Optical Link Failures Between Switches

Diagnose switch optical link failures by checking module and fiber compatibility, port status, Tx/Rx optical power

Troubleshoot Switch Port and Interface Problems

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line

View the Optical Module Status on a Switch

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, the Optical Module

How To View Port Status And Optical Module Information On Cisco ...

By reading internal parameters of optical transceivers on switches, users can monitor link status, real-time

How To View Port Status And Optical Module Information On Extreme ...

This document uses the Moduletek SFP-10G-LR-BIDI optical module installed on an Extreme X690-48x-2q-4c switch

Cisco SFP Commands Cheat Sheet: Check Status & Troubleshoot

Learn how to check SFP module health on Cisco switches. This guide covers essential CLI commands (show inventory, DOM), fixes

Solved: C9300-48S switchport problem

There is visible red light from both sides (PC NIC card, fiber cable, and SFPs in the switch). However, the port status

Troubleshooting S Series Switch Port and Interface Problems

This document describes how to check the switch interface or port status and how to locate an interface physically down fault and

SFP Issue: Causes, Fixes, and Troubleshooting Guide

Learn how to fix SFP issues fast: no link light, link flapping, detection errors, compatibility problems, and optical power

Solved: switchport operational mode down

Hi, I'd like to understand when the operational mode results down in the output of "show interface switchport" i.e.:

Interface is down/down but internet works

The "down/down" status on the switch interface suggests a layer 1 issue, possibly a faulty cable or port. However, if

View the Optical Module Status on a Switch

Choose a switch from the Filter drop-down list. Note: This option is not available in Sx250 Series switches. Note: In

View the Optical Module Status on a Switch

Objective The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their

Port Status

Can anybody explain me what is port status "monitoring" in sh int fa0/x status command?? When I run this command over cisco

Solved: What would cause all fiber optic ports on a switch to go down ...

Hi. On a big industrial plant we've replaced an old HP switch with a brand new couple of C2960x switches in stack

Port on switch down/down (notconnect)

Each time we previously disconnected and reconnected the cable the port status just remained down/down. When the

tips for troubleshooting switches

Troubleshooting tips for checking interface on switches 1)confirm interface status is okay show interface or show interface status or

Dell N3048EP-ON

Confused on this problem, it seems related to PoE: I have a door controller that is PoE, Tried to move it from a

How To View Port Status And Optical Module Information On Cisco ...

We connect Moduletek SFP-25G-SR transceiver to Cisco C9300 switch, and demonstrate how to view port status

Cisco MDS 9000 Family Troubleshooting Guide, Release 3.x ...

To drill down for additional port information, use either the Device View or Summary View, and double-click any port. The initial

Port status up and down and up again

Hi A switch is in down state when there is nothing connected to the port or if its admin shutdown. When a device is

Switch port link down status

Hi, How do we check that how long period that a switch port is in a notconnect status? Like for example, in Cisco IOS

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

Cisco MDS 9000 Family Troubleshooting Guide,

To drill down for additional port information, use either the Device View or Summary View, and double-click

Port status up and down and up again

Hi A switch is in down state when there is nothing connected to the port or if its admin shutdown. When a device is

Switch port link down status

Hi, How do we check that how long period that a switch port is in a notconnect status? Like for example, in Cisco IOS

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

View the Optical Module Status on a Switch

This article provides instructions on how to view the Optical Module Status on your switch.

Status is up/Protocol is down

I have a trunk port on a switch that show status as "up", but protocol is "down". When I do a shut, no shut on the port it

Troubleshoot Fiber Links on Catalyst 9000 Series Switches

This document describes how to troubleshoot fiber optic interfaces by addressing some of the fiber optic module and

Link Status on switch down down

server team is trying to turn up a new server on our network-however the port they are connected to is showing

What does "port status" mean in regard to network switches?

Through your network management view, you can see the status for each port on your switch, whether the port is

Uplink port on PowerConnect 8024F went to state D-Down

Before the uplink port went into the state "D-Down", the CPU load on the switch rised to around 90% and everything

switch

I am having a bit of a brain freeze. I would like to know the command that displays the link status when a network

Checking the Interface Status and Configuration Parameters

If the physical state of an interface is Administratively DOWN, the administrator has manually shut down the interface. Access the

Catalyst 3850 switchstack, stack port status down

We have (4) Catalyst 3850 switches, configured as a stack. Seems that one or both stack ports on switch 3 and 4 are

16 Tips to Troubleshoot Your Optical Transceiver Issues

The switch port may be faulty, or the optical transceiver may be overheated. If the optical transceiver is overheated, it

Solved: switchport operational mode down

Hi, I'd like to understand when the operational mode results down in the output of "show interface switchport" i.e.:

Interface is down/down but internet works

The "down/down" status on the switch interface suggests a layer 1 issue, possibly a faulty cable or port. However, if

View the Optical Module Status on a Switch

Choose a switch from the Filter drop-down list. Note: This option is not available in Sx250 Series switches. Note: In

View the Optical Module Status on a Switch

Objective The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their

Port Status

Can anybody explain me what is port status "monitoring" in sh int fa0/x status command?? When I run this command over cisco

Solved: What would cause all fiber optic ports on a switch to go down ...

Hi. On a big industrial plant we've replaced an old HP switch with a brand new couple of C2960x switches in stack

Port on switch down/down (notconnect)

Each time we previously disconnected and reconnected the cable the port status just remained down/down. When the

tips for troubleshooting switches

Troubleshooting tips for checking interface on switches 1)confirm interface status is okay show interface or show interface status or

Dell N3048EP-ON

Confused on this problem, it seems related to PoE: I have a door controller that is PoE, Tried to move it from a

How To View Port Status And Optical Module Information On Cisco ...

We connect Moduletek SFP-25G-SR transceiver to Cisco C9300 switch, and demonstrate how to view port status

Cisco MDS 9000 Family Troubleshooting Guide, Release 3.x ...

To drill down for additional port information, use either the Device View or Summary View, and double-click any port. The initial

Port status up and down and up again

Hi A switch is in down state when there is nothing connected to the port or if its admin shutdown. When a device is

Switch port link down status

Hi, How do we check that how long period that a switch port is in a notconnect status? Like for example, in Cisco IOS

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

Troubleshooting Optical Link Failures Between Switches

Diagnose switch optical link failures by checking module and fiber compatibility, port status, Tx/Rx optical power

Troubleshoot Switch Port and Interface Problems

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line

View the Optical Module Status on a Switch

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, the Optical Module

How To View Port Status And Optical Module Information On Cisco ...

By reading internal parameters of optical transceivers on switches, users can monitor link status, real-time

How To View Port Status And Optical Module Information On Extreme ...

This document uses the Moduletek SFP-10G-LR-BIDI optical module installed on an Extreme X690-48x-2q-4c switch

Cisco SFP Commands Cheat Sheet: Check Status & Troubleshoot

Learn how to check SFP module health on Cisco switches. This guide covers essential CLI commands (show inventory, DOM), fixes

Solved: C9300-48S switchport problem

There is visible red light from both sides (PC NIC card, fiber cable, and SFPs in the switch). However, the port status

Troubleshooting S Series Switch Port and Interface Problems

This document describes how to check the switch interface or port status and how to locate an interface physically down fault and

SFP Issue: Causes, Fixes, and Troubleshooting Guide

Learn how to fix SFP issues fast: no link light, link flapping, detection errors, compatibility problems, and optical power

Troubleshooting Optical Link Failures Between Switches

Diagnose switch optical link failures by checking module and fiber compatibility, port status, Tx/Rx optical power

Troubleshoot Switch Port and Interface Problems

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line

View the Optical Module Status on a Switch

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, the Optical Module

How To View Port Status And Optical Module Information On Cisco ...

By reading internal parameters of optical transceivers on switches, users can monitor link status, real-time

How To View Port Status And Optical Module Information On Extreme ...

This document uses the Moduletek SFP-10G-LR-BIDI optical module installed on an Extreme X690-48x-2q-4c switch

Cisco SFP Commands Cheat Sheet: Check Status & Troubleshoot

Learn how to check SFP module health on Cisco switches. This guide covers essential CLI commands (show inventory, DOM), fixes

Solved: C9300-48S switchport problem

There is visible red light from both sides (PC NIC card, fiber cable, and SFPs in the switch). However, the port status

Troubleshooting S Series Switch Port and Interface Problems

This document describes how to check the switch interface or port status and how to locate an interface physically down fault and

SFP Issue: Causes, Fixes, and Troubleshooting Guide

Learn how to fix SFP issues fast: no link light, link flapping, detection errors, compatibility problems, and optical power

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://alfa-pro.co.za>

Technical inquiry: <https://alfa-pro.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

