

Delta fiber optic switch ring network not working



Overview

Since you cannot use a spanning-tree protocol due to the planned network depth, you'll need to keep the fiber ring open between the furthest nodes (so the chains are kept as short as possible). After a storm, the Dell switch damaged several RJ-45 ports, so we purchased the HPE Aruba 1930 JL685A Switch and 2 Aruba J4859D transceivers. I installed the transceivers on the SFP ports. The other name for "ring" is cascading where core connects to switch-A, which connects to switch-b, to switch-c. If switch-A fails, it may cause failures or disruptions to other switches. Each node is connected to two other nodes, forming a ring-like structure. This design ensures data can travel in both directions. If one. On a big industrial plant we've replaced an old HP switch with a brand new couple of C2960x switches in stack configuration and ever since then, every 6/8 hours or so, the two fiber optics links of switch #2 go down at once. This guide will walk you through diagnosing and resolving common. Let's look at some of the common issues that occur when using single-mode fiber optics and multi-mode fiber optics and how to handle the repairs.



Article Content

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Ring Doorbell Unable to Join Network? 8 Proven Fixes

Ring doorbell unable to join network during setup? 8 proven fixes for Wi-Fi band issues, weak signal, VPN conflicts, and app errors across all Ring

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Fiber Network Troubleshooting – Common Issues & Fixes

Fiber optic networks are celebrated for their speed and reliability, but even the best systems can encounter problems. When issues like signal loss,

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Creating a distributed ethernet using a single mode fiber

Since you cannot use a spanning-tree protocol due to the planned network depth, you'll need to keep the fiber ring open between the furthest nodes

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Fixing setup issues

Unable to connect your Ring device to your wifi network If setup fails, check your Ring device's light pattern or audio message. For network changes, contact your internet provider or router manufacturer.

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JL685A Switch Problem with fiber optic link in ring network. | Wired ...

In the branch on the JL685A switch dashboard, the link on the SFP ports appears as down, but communication between the switches in the ring network works normally.

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Fiber Network Troubleshooting – Common Issues & Fixes

Learn how to troubleshoot fiber networks. Identify common issues like high loss, dirty connectors, and signal drops, with practical solutions for optical links.

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Fiber optic cable connection to switch not working

I am currently working in a project which uses a 12 core SM fiber optic cable running 40 km. Switched are connected in ring topology. Distance between two switches will be max 8 km and i

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Fix: "Unable to join the network" Ring Doorbell Issue

Move your Router Closer to the Ring Doorbell: If the router is too far away, then the signals might not reach the Ring doorbell and it will be unable to

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Solved: What would cause all fiber optic ports on a

These are connected to a ring of 3 similar other access switches, that never detect their interfaces going down, so the issue is on the rx side from the

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Troubleshooting Fiber Distributed Data Interface

5 Troubleshooting Fiber Distributed Data Interface The Fiber Distributed Data Interface (FDDI) standard was produced by the ANSI X3T9.5 standards

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Fiber Optic Ring Network Design Explained: Topologies,

Learn how to design a fiber optic ring network with practical diagrams, topologies, and switch setup tips. Explore ring network switch options for

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Redundancy Protocol Configuration Guide, Cisco

Device Level Ring Components of DLR DLR Topology Multiple Rings Redundant Gateways Cisco IE Switch Support for DLR DLR Feature Interactions

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Ring topology problems

When we set the ring on the 5 switches, according to the image below, there was looping on the network, dhcp did not work, vlans did not communicate,

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Fixing setup issues

Test your internet connection by loading ring when connected to the same wifi network on your mobile device. Having more than one wifi router can cause connection problems with Ring devices.

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Fixing offline Ring Alarm or Z-Wave devices

Network troubleshooting tips for Ring Alarm Base Station Check other wifi-enabled devices around your home to make sure the network is operating as intended. If

Jan 14, 2026

Comparison of Fiber-Optic Star and Ring Topologies for Electric

This paper compares single ring, single star, dual counter-rotating ring, and redundant fiber-optic system topologies in the following areas: predicted reliability using fault tree analysis, estimated costs for

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Fiber Optic Ring Redundancy Design for Industrial Ethernet Switches

The workshop deploys two independent fiber optic ring networks (Ring A and Ring B), each containing eight USR-ISG-8G industrial switches interconnected over 10 kilometers using 10G single-mode

Aug 09, 2025

Ring and Ping: Quick Tips for Fiber Optic Troubleshooting

Troubleshooting Common Fiber Optic Problems: Quickly identify and resolve issues with Ring and Ping's tips for optimal speed and connectivity.

Dec 13, 2025

Link but no connection with fibre, where to next?

The problem was the old POE injector for the microwave link, not the switch, sfp or fibre. Still not sure what's wrong with the old injector and why it was causing issues for devices connected

Oct 01, 2025

Ring Setup Issues : r/Ring

Another point with wifi in general whilst I'm on - my employers wifi networks will not allow streaming video from Ring via iPhone apps - switch off wifi and use mobile data - all works.

Jul 31, 2025

Differences Between Industrial Ethernet Fiber Optic

All N-TRON switches offer dual power supply inputs to eliminate the possibility of a single power supply failure bringing the network down. Star topology also allows

Jan 15, 2026

Topology for LAN switches using fiber

Nowadays, pure LAN ring topologies are no longer in use for office networks. But at the level of cabling, ring topologies may be used even today in office networks when at the logical level

May 05, 2026

Network Redundancy and Ring Topologies

Many different types of ring technologies can enhance network redundancy. To better understand network redundancy and ring topologies, continue reading.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.regen-power.co.za>

Email: info@regen-power.co.za

Phone: +49 176 845 2036

Address: Taunusanlage 15, 60325 Frankfurt am Main, Germany

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