

How to use a miniature fiber optic ring network switch



Overview

In this video, we dive into ERPS (Ethernet Ring Protection Switching)—your fiber network's secret weapon for redundancy and zero downtime. We'll explore the pros and cons of star, daisy chain, and ring topologies, then show you step-by-step how to set up an ERPS. This guide walks you through everything you need to know about fiber ring networks—from basic concepts to topology diagrams and essential protocols. What Is a Fiber Optic Ring Network?

A fiber optic ring network is a physical or logical network topology where devices (usually switches) are. Fiber optic cabling is increasingly used to connect network switches and other datacom equipment, especially in long-distance and mission-critical applications. Fiber provides: Increased internet signal bandwidth. Most modern fiber-enabled network switches require an SFP transceiver module. One approach that has proven effective in achieving these goals is using a fibre ring topology by running multiple redundant geographically different fibre paths to the cabinet. This configuration has the advantage of providing a redundant pathway if a fiber should fail.

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