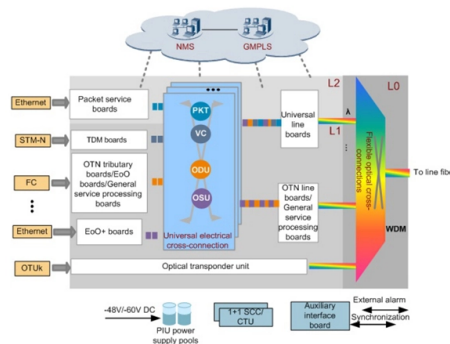


Fiber optic configuration switches



Article Overview

Fiber optic switches are configured by setting up the switch hardware, enabling fiber-capable ports, assigning VLANs, and managing port modes or optical paths depending on the switch type.

Types of Fiber Optic Switches

Fiber optic switches can be broadly categorized into:

- Ethernet switches with fiber ports: Standard network switches that use fiber interfaces instead of copper, following IEEE 802.3 Ethernet protocols for LAN, WAN, or data center networks .
- Fibre Channel (FC) switches: Used in storage area networks (SANs) to connect servers and storage devices, following the Fibre Channel protocol for lossless, high-performance data transmission .
- Optical Circuit Switches (OCS): All-optical switches that route light signals directly between fiber ports without converting to electrical signals, offering ultra-low latency and protocol transparency .
- Mechanical, MEMS, and solid-state optical switches: Vary in switching speed and insertion loss, with mechanical switches using movable mirrors, MEMS using micro-mirrors, and solid-state using electro-optic or liquid crystal elements .

Basic Configuration Steps for Ethernet Fiber Switches

- Connect to the switch: Use an Ethernet cable to connect your computer to the switch and ensure your computer is in the same IP range .
- Access the switch interface: Log in via a terminal client (e.g., PuTTY) using the swi...

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