

What is a core switch line card



Article Overview

A core switch line card is a modular component that provides additional ports and processing capacity to a core switch, enabling high-speed data forwarding and network scalability.

What a Core Switch Line Card Does

A line card is an integral part of a modular core switch, such as those in the Cisco Catalyst 9400 Series . It functions as a dedicated interface module that handles packet forwarding, Layer 2/Layer 3 processing, and traffic aggregation. By installing line cards, a core switch can expand its port density, support higher bandwidth, and accommodate more network segments without replacing the entire chassis .

Role in Network Architecture

In enterprise networks, a core switch sits at the backbone, aggregating traffic from distribution switches and ensuring ultra-low latency and high throughput across the network . Line cards allow the core switch to efficiently manage large volumes of data by distributing processing across multiple modules, which improves performance, redundancy, and scalability. Each line card can support different types of interfaces, such as 10G, 40G, or 100G Ethernet, depending on network requirements .

Benefits of Using Line Cards

- **Scalability:** Easily add more ports or higher-speed interfaces as network demands grow

Article Content

What is a Core Switch | Functions and Difference over Normal Switch

What is a core switch and how it works? This article builds the basics of this kind of switch for the ones who don't

What is a line card?

Optical line cards An optical line card is required for setting up high-speed data and network connections. Its role is to

Switch Fabric

Switch Fabric Overview The switch fabric is the core of the Cisco CRS 4-slot line card chassis. The switch fabric is implemented

Core Switch Explained: Key Functions and Benefits

Discover what a Core Switch is, its pivotal role in network architecture, and how it boosts performance and reliability in

What Is a Core Switch? Network Backbone Architecture Guide

Think of a core switch as the high-speed interstate highway of your network. It does not inspect the cargo or check

What Is a Core Switch in Networking?

What Is a Core Switch in Networking? It's more than just a switch; it's the central nervous system of your network

What is Core Switch and How to Choose-QSFPTEK

Conclusion Simply put, knowing what a core switch does and how to pick the right one is key to building a solid

Cisco Nexus 7000 / 7700 Line Cards

Overview The Cisco Nexus core switch platform includes the 7000 series switches and the newer 7700 series

Core Switch vs. Distribution Switch vs. Access Switch

What is a Core Switch? A core switch is the primary switch installed at the backbone of a layered or hierarchical network. These data

Understanding Core Switch: What It Is and How to Choose the

Typically, core switches are Layer 3 switches equipped with robust network management capabilities. They are

Solved: term "line card"

Posting It's often used as a reference to a chassis switch's multiple port module cards. Number of ports vary, but

Solved: sup and line card

I am trying to get a good understanding on what following terms actually mean related to any switch, say 6500. - Line

Cisco CRS Carrier Routing System 16-Slot Line Card Chassis

Line Cards and Physical Layer Interface Modules This chapter describes the modular services card (MSC), forwarding

Cisco Catalyst 9400 Series Line Card Installation Note

All Cisco Catalyst 9400 Series line cards support hot swapping, which lets you install, remove, replace,

Line card

A line card or digital line card is a modular electronic circuit designed to fit on a separate printed circuit

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Installing and Removing Line Cards

Online Insertion and Removal All line cards in the Cisco 10000 series routers support online insertion and removal (OIR). However, it

Line Card Explained: Key Component in Network Systems

They switch between analog and digital signals for clear voice calls. Plus, they're equipped with chips for POTS,

Line Card Explained: Key Component in Network Systems

What Is a Line Card? A line card is key in network systems and telecommunications. It acts as a modular electronic

Cisco Catalyst 9400 Series Switch Line Cards Data Sheet

Cisco Catalyst 9400 Series switch line cards Cisco Catalyst 9400 Series switches offer Cisco 5G and 10G Multigigabit

chassis switch, service modules and line cards

Hi everybody I have this silly question What is the difference between service module and line card? thanks and have

Switch Fabric

Switch Fabric Overview The switch fabric is the core of the Cisco CRS routing system. The Cisco CRS routing system fabric is

Cisco Catalyst 9400 Series Switch Line Cards Data Sheet

The Cisco Catalyst 9400 Series 48-port 10 Gigabit Ethernet line card can be deployed for high-performance and high-density 10

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