

What does 48 access switches mean



Article Overview

A 48 access switch is a network device with 48 ports that connects end-user devices to the network, often providing Power over Ethernet (PoE) and high port density for enterprise or specialized applications.

Overview

An access switch is a network edge device that connects end-user hardware—such as computers, IP phones, wireless access points, cameras, and IoT devices—to the broader network. It typically sits at the access layer of a hierarchical network, forwarding traffic upstream to distribution or core switches while handling VLAN placement, PoE delivery, and local traffic management . A 48-port access switch specifically provides 48 physical ports, allowing multiple devices to connect simultaneously. These switches are common in offices, data centers, classrooms, and surveillance setups where high connectivity is required .

Key Features

- **High Port Density:** Supports 48 devices, reducing cabling complexity and maximizing rack space .
- **PoE/PoE+ Support:** Many 48-port switches provide Power over Ethernet, enabling devices like IP cameras and Wi-Fi access points to receive power and data over a single cable .
- **Managed vs Unmanaged:** Managed switches allow configuration of VLANs, Quality of Service (QoS), security policies, and remote monitoring, while unmanaged switches are plug-and-play for simpler setups

Article Content

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9 Best 48-Port Gigabit Ethernet Switch | Dense Switching, Decoded

For organizations building an Omada-based network, this is the natural 48-port aggregation switch that bridges access and core

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What Is an Access Layer Switch? Guide complet

Learn what an access layer switch is, how it works in enterprise networks, and how to choose the right Cisco access switch for your

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using C9300-48T/C9300-48P stacked switches as both access and ...

We are deploying Cisco C9300-48T/C9300-48P stacked switches across the campus as an access switch. In our

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FS Access Switches Selection Guide for Your Networks

In today's interconnected world, choosing the right access switch is crucial for ensuring efficient network performance.

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Why are switches 48 ports?

48 is about as much as one can cram in 1 rackmount unit (as stated above), while still leaving enough space for

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Core, Aggregation, or Access Switches? Choose the Perfect Fits

Selecting between core, aggregation, and access switches is not only technical — it's strategic. Once you know what

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What is access switch and how to choose the right one

By understanding these nuances, I'm sure you can understand “what is access switch” is and confidently navigate the

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Understanding Access Switches: Key Components of Your Network Switch ...

Explore the role of access switches in your LAN setup. Understand their key components, functions in the access layer,

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Key Features of Access Switches Explained

The essential features of access switches, including high port density, PoE, Layer 3 capabilities, security,

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What is a Network Switch? | Explained Working, Types ...

Unlock the power of network switches with this in-depth whitepaper. Know the Types of Network switches, Architecture, and

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What is a network switch? | Glossary | HPE

A network switch is networking hardware that connects devices on a network by using packet switching to receive and

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The Ultimate Guide to Choosing a 48-Port Gigabit Ethernet Switch

Many modern 48-port switches offer additional features such as Power Over Ethernet (PoE), which further lessens the

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Cisco Sge2010p 48 Port Gigabit Switch Data Sheet

A stack of units is managed as a single switch with one web management interface. The Cisco SGE2010 can coexist in a stack with

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Different Types of Network Switches

There are several types of network switches and understanding the differences can help you make the right choices for your small

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The Different Types of Network Switches

An Ethernet switch at its most basic function creates a local area network (LAN) of interconnected devices — but

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UniFi Switch Datasheet

Available with 24 or 48 RJ45 Gigabit ports, the UniFi Switch is a fully managed Gigabit switch, delivering robust performance and

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Historical question: Why switches have 24/48 ports?

Hello! Simple question, but I can't find any information about why almost all switches have 4,8,12,24,48

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Why are switches 48 ports?

Most switches are 8-port, 16, 24 and 48-port. Yes, there are 5, 10, 12, 52-port switches, but it seems that there must

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The Ultimate Guide to Choosing a 48-Port Gigabit Ethernet Switch

Explore fibermall's guide to 48-port Gigabit switches. Compare features, find insights, and choose the perfect solution

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What Is Switching Capacity in Networking?

Learn what switching capacity means in networking, how to calculate it, and why it matters when choosing the right switch for your

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Understanding the different types of Ethernet Switches

In contrast, Stackable switches provide a way to simplify and increase the availability of the network. Instead of

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Access vs. Distribution vs. Core Switch Comparison Guide

While access switches provide end-device connectivity, distribution switches aggregate traffic and enforce policies, and core

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Access vs. Distribution vs. Core Switch Comparison Guide

Compare Access, Distribution, and Core switches: understand their roles, features, and differences in enterprise network hierarchy.

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24-Port Switch vs. 48-Port Switch: Which Is Right for Your IT ...

As you search for the perfect switch for your IT environment, one of the options you'll need to consider is the differences between a

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Core Switch Vs Distribution Switch Vs Access Switch□What

Core Switch Vs Distribution Switch Vs Access Switch□What's the difference□ Ethernet networks are expanding and their designs

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How does a switch work?

Switches are key network building blocks. Learn how does a switch work to securely connect your small business to the rest of the

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What Is an Access Switch? The Definitive Edge Network Guide

A single wiring closet may contain stacks of 48-port access switches to accommodate every desk on a floor.

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24-Port vs 48-Port Switch: Enterprise Buying Guide

Choose a 48-port switch when the access closet has predictable port demand, higher endpoint density, limited rack

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MS150 Datasheet

Cisco Meraki MS150 stackable switches provide Layer 2 access switching, ideal for branch and campus deployments. The MS150

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Core Switch vs. Distribution Switch vs. Access Switch

Core Switch vs. Distribution Switch vs. Access Switch: Understand Their Roles in Ethernet Networks Ethernet networks are growing

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Core Switch vs Access Switch | Definitions and Key Differences

Core Switch vs Access Switch The core switch is used in the center of your network, while an access switch is placed

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Core Switch vs. Distribution Switch vs. Access Switch

The access switch is the network switch that connects the access layer with the subnets. The subnets are integrated with access

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What is an access switch and how to select access switches?

As key components in a network architecture, access switches are fundamental and widespread in hierarchical

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Understanding the Role of an Access Switch in Your Network

Explore the crucial role of an access switch in your network. Learn how it connects end-users and devices via

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