

Power Consumption of 48-Port Core Switch



Overview

The first four ports deliver up to 90W PoE++, compatible with IEEE 802.3af/at/bt, while Ports 5-48 provide robust 30W support. The Cisco Catalyst 1000 Series switches are fixed-configuration, Gigabit Ethernet switches that provide entry-level enterprise-class Layer 2 access for branch offices, conventional workspace, and out-of-wiring closet applications. Cisco Catalyst 1000 Series switches provide support for the. What is the power budget of a 48-port PoE switch, and how many devices can it support?

The power budget of a 48-port PoE switch is the total amount of Power over Ethernet (PoE) it can supply across all its ports to power connected devices like IP cameras, VoIP phones, or wireless access points. How. Layer 2, PoE switch with (48) GbE, PoE+ and 24V passive PoE RJ45 ports, (2) 1G SFP ports, and (2) 10G SFP+ ports. When discussing the power consumption of a Cisco 48-port switch, it's important to understand that power requirements can vary significantly based on the model and the features it supports.



Article Content

Jun 29, 2025

48-Port PoE Switch

Overview Introducing the 48-Port PoE switch, a networking marvel featuring 48 x 10/100/1000M adaptive PoE copper ports and 2 SFP Gigabit uplink ports. The first four ports deliver up to 90W PoE++,

Nov 11, 2025

ION-S21048P 48-Port Gigabit PoE+ Layer 2 Managed Switch

Cost-effective, simple-to-use networking solutions for SMB ensive Layer 2 switching capabilities and PoE+ support. It provides 48 Gigabit ports that support IEEE802.3at/af PoE+ with total PoE Budget

Mar 18, 2026

How many watts per port on poe 48 port switch

When calculating how many watts per port you need for your PoE 48 port switch, you should consider the power requirements of the devices you will

May 07, 2026

How Much Wattage Does A Network Switch Use

As we delve deeper into the realm of network switch power consumption, it becomes evident that various factors contribute to the overall

Sep 17, 2025

24 Port PoE Switch Power Consumption: 400W vs

High port-density 48 port PoE switch may be available for up to 600W or even higher. A midsize 24 port PoE switch with appropriate power

Jan 03, 2026

total switch power consumption

Hi everyone, using cisco power calculator for C9300-48U model and by adding few POE devices, the results shows that the switch typical power consumption without POE is 135W, and

Dec 03, 2025

Cisco 48 Port Switch Power Consumption Explained

Discover the power consumption of Cisco 48 port switches. Compare models, find energy-efficient options, and click to explore top-rated products with PoE+ support and low power usage for

Dec 08, 2025

How Much Power Does a PoE Switch Provide

Learn how much power a PoE switch provides, including PoE power budget, wattage per port, IEEE standards, and Cisco command checks. A complete guide for network engineers and IT buyers.

Jun 19, 2026

ION-S21048P 48-Port Gigabit PoE+ Layer 2 Managed Switch

Cost-effective, simple-to-use networking solutions for SMB The ION-S21048P is a full featured Gigabit Ethernet switch with comprehensive Layer 2 switching capabilities and PoE+ support. It provides 48

Jul 18, 2025

UniFi Standard 48 PoE (Gen1)

PoE Output. Layer 2, PoE switch with (48) GbE, PoE+ and 24V passive PoE RJ45 ports, (2) 1G SFP ports, and (2) 10G SFP+ ports.

May 19, 2026

How many watts is a cisco 48-port switch?

In summary, determining the power consumption of a Cisco 48-port switch involves understanding the specific model, its features, and the environment in which it

Jun 01, 2026

Detailed power consumption values of Ethernet switches

The power consumption of each port is 560 Watt . This is the main access point of the IP layer to the elastic architecture and also the switch fabric is not

Feb 02, 2026

C9300-48P-A Datasheet

C9300-48P-A is 48-port PoE+, Network Advantage Switch of 9300 series. Catalyst 9300 Series are the next generation of the industry's most widely deployed switching platform. At 480 Gbps, they are the

Sep 20, 2025

The Ultimate Guide to Selecting a 48-Port PoE Switch:

A 48-port PoE++ switch with 90W per port requires 4,320W —far exceeding the 1,500W output of a standard switch. Always check the PSU wattage and

Jun 03, 2026

Determining the PoE budget and per-port average of a PoE switch

The switch has to be POE+-capable and have enough power to deliver to each port. To determine the Maximum per port power, use the basic formula of (Maximum Power Consumption -

Jul 21, 2025

Cisco Catalyst 1000 Series 24-Port and 48-Port Switch Hardware ...

For the 48-port switch models, the power range is between 180W and 740W. On a per-port basis, you can control whether or not a port automatically provides power when an IP phone or

Feb 13, 2026

Sound off! How much power does your switch consume? What's ...

I have a cisco catalyst C3560G 48 port that idles at about 65 watts with no devices connected. Moving to a dell power connect 5524 next week for that 10Gbe love, and supposedly low power consumption.

Nov 17, 2025

Cisco SGE2010P 48-Port Gigabit Switch

Product Overview The Cisco® SGE2010P 48-Port Gigabit Switch (Figure 1) allows you to expand your network securely. Web-based configuration of the switch is secured using SSL. The Cisco

Apr 10, 2026

What is the power budget of a 48-port PoE switch, and

The power budget of a 48-port PoE switch depends on the PoE standard and specific model, typically ranging from 370W for basic PoE switches

Oct 08, 2025

Trying to understand the power consumption of Catalyst 9200 48P switch

Hello community! I have been trying to understand the table shown in the attached screenshot of the power consumption of this switch(C9200-48P-E), if you could please help, thank

Mar 08, 2026

Cisco Catalyst 1000 Series 24-Port and 48-Port Switch

Reduced power consumption and advanced energy management. RJ-45 console ports. USB Type A port supports file system. Switch Models Front

Aug 24, 2025

How to Choose a Suitable 48-Port PoE Switch?

48-port PoE switch with SFP+ port enables network designers to achieve high-performance and long distance network deployments. Power

Mar 20, 2026

Network Switch Power Consumption Explained

Number of ports: The number of ports in a network switch may range from 2 to 48 and beyond. Out of the total number of ports, only a quarter of them would be PoE enabled for most models.

May 19, 2026

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