

How to view the power consumption of core switches



Overview

show environment power-consumption [vsx-peer] Shows the power being consumed by each management module, line card, and fabric card subsystem, and shows power consumption for the entire chassis. Shows the output from the VSX peer switch. This document describes how to calculate the actual power consumption on a Catalyst 9300 switch stack. Organizations can now optimize power consumption, reduce operating costs, and support global sustainability initiatives by leveraging the insights provided on the Energy Management Dashboard. If the switches do not have the VSX configuration or the ISL. This check monitors the voltage, current and power usage of Cisco Core Switches which support the CISCO-ENTITY-FRU-CONTROL MIB. There are no default levels set. Support multiple network device types including switches, routers, firewalls, and provide detailed power analysis and optimization recommendations.



Article Content

Mar 10, 2026

Switch Power Consumption Calculator

It estimates switch wall power, energy consumption, operating cost, heat output, and annual emissions using base load, active ports, PoE demand, uplink modules, and supply efficiency.

Aug 05, 2025

Network switch: reduce power consumption and save costs

Network switch: Power consumption How much are your electricity costs being used? How can you save AND protect the environment? Read now.

Jun 11, 2026

Cisco Core Switches: Power Usage

This check monitors the voltage, current and power usage of Cisco Core Switches which support the CISCO-ENTITY-FRU-CONTROL MIB.

Nov 16, 2025

Using Switching Activity to Measure Power Consumption of a Device

Once the average switching activity is known (e.g., the average number of logic elements drawing power per clock cycle), this number can be multiplied by the expected power consumption per logic element

Sep 07, 2025

Monitor and Customize Dashboard View on a Switch

The objective of this document is to show you how to check and customize your dashboard to monitor the port utilization, traffic errors, and PoE

Mar 09, 2026

Energy Management Dashboard

In addition to external data sources, the dashboard collects power consumption data from connected devices to represent overall system power usage, including

Jan 30, 2026

Network Switch Power Consumption Explained

Network Switch Power Consumption Explained The energy consumed per unit by a switch is an important factor for a buyer to know. Power used by a switch differs not only based on its

Aug 19, 2025

An Energy Consumption Model for Energy Efficient Ethernet Switches

Typically only minimum and maximum power consumption levels are given. In this paper an indepth analysis of the power consumption profile of small Ethernet switches is presented. Based on the

Sep 25, 2025

show environment power-consumption

show environment power-consumption [vsx-peer] Shows the power being consumed by each management module, line card, and fabric card subsystem, and shows power consumption for the

Mar 06, 2026

Calculate Total Power Consumption on Catalyst 9300

This document describes how to calculate the actual power consumption on a Catalyst 9300 switch stack.

Oct 29, 2025

Calculate Total Power Consumption on Catalyst 9300

Run this command to view the output power for each Power Supply Unit(PSU) in the stack. This output lists the direct current power output (in milliwatts) for each detected power supply. Summing these

Feb 05, 2026

Network Device Power Calculator

Professional network device power calculator supporting power analysis for switches, routers, firewalls, access points and other devices. Accurately calculate device

May 03, 2026

get real (oper) power consumption of switch via SNMP

When I dimm the display of a Cisco phone I can see "Oper Power" decreases for that port. So I think these "Oper Power" values are the correct ones. We want to implement some power

Apr 18, 2026

High Bandwidth Router Power Consumption (part 1)

Part 2 of this series focuses on power provisioning. Let's start by defining a unit for the metric. I propose "watts per 100G without optics" based on system power consumption. It represents

Sep 11, 2025

How can i measure the power consumption of a PoE switch?

I assume this switch is hooked up to a larger distribution switch which is capable of generating enough power per port to supply the combination of the edge switch and some combination of endpoints like

Dec 28, 2025

How Do I View the Device Power Consumption?

In the command output, the Average power consumption field indicates the average device power, the Total Power Allocated field indicates the consumed device power, and the Total

Dec 02, 2025

show current power consumption Cisco 3650 IOS 3.07.04E

What command can I issue to see the current power (POE and System Power) on a Cisco 3650 Switch running IOS 3.07.04E. Sh Env Power #shows me power

Jun 23, 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 30, 2025

How to Measure Your PC's Power Consumption

Modern computers have components that require lots of power and given that this all costs money, here's our guide to measuring how much energy

Mar 09, 2026

Using Switching Activity to Measure Power Consumption of a Device

Because the power consumption depends heavily on the input data and structure of the integrated circuit, some probabilistic methods with logic simulators must be used to determine the switching

Jun 12, 2026

How Industry Collaboration Fosters NVIDIA Co

That enables unprecedented data throughput without sacrificing physical compactness. This level of integration is key for the emerging generation

Aug 17, 2025

How to check the realtime data of the power inline consumption of a ...

After power is applied to the port, the switch uses Cisco Discovery Protocol (CDP) to determine the actual power consumption requirement of the connected Cisco powered devices, and

Sep 18, 2025

Ubiquiti UniFi power consumption and switch stats

Hi, Since Home Assistant is focussing more and more on energy with the new energy dashboard. Would it be possible to add the power consumption

Dec 30, 2025

Calculate Total Power Consumption on Catalyst 9300

The objective is to identify the total power consumption by a Cisco Catalyst 9300 switch stack. Network engineers are required to obtain accurate, real-time data on how much power (in watts or milliwatts)

Nov 12, 2025

A Power Benchmarking Framework for Devices

Researchers have proposed several strategies for energy management of networking devices. However, we need a comprehensive characterization of power consumption by a variety of switches and

Jul 04, 2025

Show power usage for devices

Devices with module power supplies like cat 4500s/6500s/7600 etc all have commands like "show power ...", which will show me input voltage, current and power usage in watts.

Sep 23, 2025

K-pop Global Market Report 2025: Top Countries & Top

K-pop's global consumption remained centered on Asia, with South Korea, Japan, and Indonesia remaining its top three markets. As per K-Pop

Nov 03, 2025

How Much Wattage Does A Network Switch Use

Learn about the power consumption of network switches and how to calculate the wattage usage for your specific networking setup. Understand the

Sep 02, 2025

Detailed power consumption values of Ethernet switches

We assess the impact of traffic variations on energy consumption and devices lifetime in a core network. Specifically, we first define a model to control the

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