

Power Consumption of 10 Gigabit Layer 3 Core Switch



Overview

24 PoE ports support up to 60 W each, with a 790 W budget expandable to 1440 W—ideal for 10G PoE devices Two hot-swappable power modules enable 1+1 redundancy and load sharing for uninterrupted power and reliability 24 PoE ports support up to 60 W each, with a 790 W budget expandable to 1440 W—ideal for 10G PoE devices Two hot-swappable power modules enable 1+1 redundancy and load sharing for uninterrupted power and reliability In addition, the Cisco Nexus 5600 platform 10-Gbps switches bring integrated line-rate Layer 2 and 3 capabilities with true 40 Gigabit Ethernet support (on uplink and network-facing ports), Cisco programmable fabric innovations, Network Virtualization Using Generic Routing Encapsulation (NVGRE). The Cisco Catalyst ® 4948 10 Gigabit Ethernet Switch is a wire-speed, low-latency, Layer 2 to 4, 1-rack-unit (1RU), fixed-configuration switch for rack-optimized server switching. Based on the proven Cisco ® Catalyst 4500 Series hardware and software architecture, the Cisco Catalyst 4948 10 Gigabit. At their core, network switches operate at the data link layer (Layer 2) of the OSI model, where they utilize MAC addresses to forward data frames to the correct ports. This fundamental functionality enables switches to efficiently manage network traffic, segmenting the network into smaller. PLANET XGS-6350-12X8TR is a Layer 3 Managed Gigabit Switch that provides high-density performance by its Layer 3 10Gigabit routing with 12 SFP+ fiber interfaces and 8 Gigabit interfaces delivered in a rugged case. The administrator can flexibly choose the suitable SFP/SFP+ transceiver according to. FortiLink is an innovative proprietary management protocol, enabling seamless integration and centralized management between a FortiGate Next-Generation Firewall and the FortiSwitch Ethernet switching platform. With 48 Gigabit Ethernet ports and 4 dedicated 1G SFP uplinks, it ensures seamless high-speed con...

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Detailed power consumption values of Ethernet

We assess the impact of traffic variations on energy consumption and devices lifetime in a core network.

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FortiSwitch Data Center Series Data Sheet

FortiSwitch campus core and data center switching architecture can augment and further the security policies at the FortiSwitch

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Energy Efficiency and Cisco Switches

Overview In today's business, when considering energy efficiency and power consumption in the context of networking and

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XGS-6350-12X8TR

The XGS-6350-12X8TR boasts a high-performance switch architecture that is capable of providing non-blocking switch fabric and

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ProSafe L2 Managed Switch Data Sheet JGSM7224

Data Sheet The NETGEAR ProSafe Gigabit L2 Managed Switch, JGSM7224, allows for wire-speed Gigabit performance and a full

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24-Port Layer 3 Stackable 10 Gigabit Fiber Managed Switch

High Availability and Flexibility The DXS-3400 Series switches feature a modular fan and power supply design for a high availability

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Network Switch Power Consumption Explained

Network Switch Power Consumption Explained The energy consumed per unit by a switch is an important factor for a

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DGS-1210-10 10-Port Gigabit Smart Managed Switch | D-Link

Powerful, yet Cost-Efficient The D-Link DGS-1210 Series Smart Managed Switches are the latest generation of switches to provide

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H3C S6520X-SI Series 10GE Layer 3 Runrate Switch

H3C S6520X-SI Series Switch-High performance and scalable 10GE access switching solution with fixed power or dual pluggable

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Cisco Catalyst 3560-CX and 2960-CX Series Compact

Product overview The Cisco Catalyst 3560-CX and 2960-CX Series Compact Switches help

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DELL EMC NETWORKING N4000 SERIES SWITCHES

Dual 80PLUS-certified efficient hot swappable power supplies and redundant variable speed fan operation help decrease cooling and

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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

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Characterizing 10 Gbps Network Interface Energy Consumption

Abstract—This paper quantifies the energy consumption in six 10 Gbps and four 1 Gbps interconnects at a fine-grained level,

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Network Switch Power Consumption Explanation and How to Choose

Learn how many watts a network switch typically uses, the differences between low and high power Ethernet

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Carbon aware network

Evolution of switches power consumption Itzik Kiselevsky Carbon Aware Networks Workshop 2023 Reducing Power Consumption

May 27, 2026

RG-NBS5200-24GT4XS-P, 24-port Gigabit Layer 3 PoE Switch, 4

RG-NBS5200-24GT4XS-P, 24-port Gigabit Layer 3 PoE Switch, 4 SFP+ Uplink
Enterprise, Hospitality, Factory, Education, Retails etc.

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Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost

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FortiSwitch Data Center Series Data Sheet

Each switch series in the campus core and data center family offers models that enable the administrator to choose the appropriate

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Gigabit Ethernet

Ethernet was the result of research conducted at Xerox PARC in the early 1970s, and later evolved into a

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D-LINK DGS-1210-10P Web Smart Switch

The DGS-1210 Series Gigabit Smart Managed Switches includes a range of affordable PoEenable switches for businesses looking to

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10 Gb Gigabit Switches | NETGEAR

Optimize your network with NETGEAR 10 Gb switches. Pick from unmanaged or smart/fully managed for

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Cisco Nexus 5600 Platform 10-Gbps Switches Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco Nexus 5600 Platform 10

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10gb layer 3 switch | Newegg

Cisco C1300X-24T-4X Ethernet Switch - 24 Ports - Manageable - Gigabit Ethernet, 10 Gigabit Ethernet - 3 Layer Supported - 32.10

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Network switch

A modular network switch with three network modules (a total of 36 Ethernet ports) and one power supply A five-port layer-2 switch

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Network Energy Consumption Insights With PoE Power

Versatek's PoE industrial managed switch has built-in device management features to adjust Quality of Service (QoS)

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Layer 3 Network Switches

Actelis' Layer 3 network switches are managed, hardened, and feature Gigabit switching capacity, static routing, RIP v1/v2, OSPF

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Best Layer 3 Switch of 2026: Tested and Reviewed

Looking for the best Layer 3 switch to power your growing network? You're in the right place. We've tested and

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EG97023 Series

When should you use an Industrial Layer 3 switch? EtherWAN's EG97023 is a hardened layer 3 core/distribution switch, designed to

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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

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10 Gigabit Ethernet Switch: Unleashing the Power of 10GB Networking

Explore fibermall about 10 Gigabit Ethernet switches! Unlock the potential of 10GB networking with this in-depth guide.

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Cisco Catalyst 4948 10 Gigabit Ethernet Switch Data Sheet

The Cisco Catalyst 4948 10 Gigabit Ethernet Switch offers a choice of 300-watt (W) AC or DC power supplies. The switch can

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Ratgeber Stromsparen im LAN: Der Switch als Energie-Manager

Zunächst sollten sie bei der Ausschreibung für ihre Switch -Infrastruktur auch die konkreten Stromverbrauchswerte

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10Gb Ethernet Switches

Explore FS 10Gb Switches, designed to meet campus network access/aggregation needs, featuring comprehensive protocols,

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Stackable L3 Managed Switch Datasheet

The newest chip brings lower energy consumption. The CPU reasonably adjusts workload according to the situation

Contact Us

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