Juniper EX2300-24P Power over Ethernet Switch

An economical entry-level Power over Ethernet switch

Overview

The Juniper Networks EX2300-24P Power over Ethernet (PoE) Switch offers an economical, entry-level 24-port switch solution for access-layer deployments in branches and enterprise campus networks where PoE is needed. The EX2300-24P is supported with all Lenovo servers.

Features and Benefits

The EX2300-24P switch includes a number of features that make it ideal for converged network access deployments, but the main value-add in a Lenovo Data Center deployment is the PoE feature.

PoE/PoE+ Power

The EX2300-24P switch delivers up to 30W watts of power for supporting IP-networked devices such as PoE IP phones, wireless access points and video cameras. It supports the IEEE 802.3af PoE standard, as well as IEEE 802.3at PoE+ with a budget of 740W. The PoE-enabled EX2300-24P switch provides a maximum system budget of 740W to deliver up to 30W to all 24 ports simultaneously.

Product Description

The Juniper Networks EX2300 line of Ethernet switches offers a compact, high-performance solution that supports today's converged network access deployments.

Each EX2300 switch includes an ASIC-based Packet Forwarding Engine (PFE) with an integrated CPU to consistently deliver wire-rate forwarding, even with all control plane features enabled. Based on existing, field-proven Juniper Networks technology, the PFE brings the same level of carrier-class performance and reliability to the EX2300 switches that Juniper Networks routers bring to the world's largest service provider networks.

The EX2300-24P supports the 802.3af Class 3 Power over Ethernet (PoE) and 802.3at PoE+ standards for supporting networked devices such as telephones, video cameras, IEEE 802.11ac WLAN access points, and videophones in converged networks. The PoE-enabled EX2300-24P switch includes a system budget of 370W to deliver up to 30W to 12 ports.

The EX2300-24P occupies a single rack unit, delivering a compact solution for crowded wiring closets and access locations where space and power are at a premium. The EX2300 switch's 10-inch/12-inch depth and low acoustics also make it ideal for open office deployments. For silent operation requirements, see the EX2300-C-12P, a compact, fanless version of the EX2300.

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Specifications

Multi Products	Juniper EX2300-24P Ethernet Switch
Form Factor (Height / Width / Depth / Weight)	4.45cm/1.75 inches (H); 44.19cm/17.4 inches for desktop installations or 44.6cm/17.56 inches w/ rack-mounted brackets (W); 30.98cm/12.2 inches (D); 4.49kg/9.9 lbs
GbE Port Density per System	28 (24 access ports + 4 –port SFP/SFP+)
Port Speed	24x 10/100/1000BASE-T
Max. System Power Consumption	24W AC (without PoE enabled)
Total PoE Power Budget	370W
Airflow / Operating Temperature	23 cfm / 0ºC-45ºC
CPU	125GHz ARM CPU
Warranty	Limited lifetime warranty with 3 years Juniper J-Care software support, 24x7 access to Juniper technical support (TAC), software updates and upgrades, and Juniper web services.

Each EX2300-24P switch supports four fixed front-panel 1GbE/10GbE uplink ports with pluggable optics (purchased separately) for high-speed backbone or link aggregation connections between wiring closets and upstream aggregation switches. The EX2300 also features a front-panel mode button that offers a simple interface for bringing devices up and selecting LED modes.

Working as an enforcement point within the Access Policy Infrastructure, the EX2300-24P provides standards-based 802.1X port-level access control as well as L2-L4 policy enforcement based on user identity, location, device, or a combination of these. If access is granted, the switch assigns the user to a specific VLAN based on authorization levels.

The EX2300-24P also provides a full complement of port security features, including DHCP snooping, dynamic ARP inspection (DAI), and media access control (MAC) limiting to defend against internal and external spoofing, as well as man-in-the-middle and denial-of-service (DoS) attacks. Security slots on either side of the switch accept locking devices that physically secure switches, preventing them from being easily removed in open space or unsecured environments.

High Availability

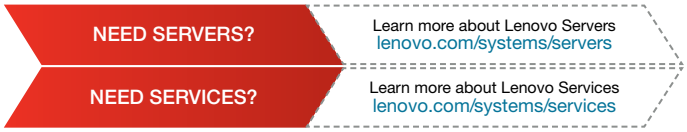
To avoid the complexities of the Spanning Tree Protocol (STP) without sacrificing network resiliency, the EX2300 employs a redundant trunk group (RTG) to provide the necessary port redundancy and simplify switch configuration. It also supports cross-member link aggregation, which allows redundant link aggregation connections between devices in a single Virtual Chassis configuration. This provides an additional level of reliability and availability.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For More Information

To learn more about the Juniper EX2300 Ethernet Switch, contact your Lenovo Business Partner or visit **lenovo.com**/systems/networking



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