

Juniper EX2300-C-12P Power over Ethernet Switch

An economical, compact, entry-level Power over Ethernet switch



Overview

The Juniper Networks EX2300-C-12P Power over Ethernet (PoE) Switch offers an economical, entry-level 12-port switch solution in a compact, fanless form factor for access-layer deployments in Lenovo data center branches, retail, and workgroup environments where PoE is needed. The EX2300-C-12P switch is supported with all Lenovo servers.

Features and Benefits

The EX2300-C-12P switch includes a number of features that make it ideal for low-density, open space deployments, but the main value-add in a Lenovo data center deployment is the PoE feature.

PoE/PoE+ Power

The EX2300-C-12P switch delivers up to 30W 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 124W. At maximum power, the 12-port EX2300-C-12P can provide 15.4W of Class 3 PoE to a maximum of eight ports

simultaneously, and 30W of PoE+ to a maximum of four ports simultaneously. Attached devices draw the necessary power until the PoE power budget is exhausted.

Silent Operation and Low Power

The EX2300-C-12P switch is fanless, resulting in silent operation suitable for deployments in workgroup areas. The fanless design also reduces power consumption and improves mean time between failures (MTBF) by eliminating moving parts.

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-C-12P switch 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-C-12P switch includes a system budget of 174W for PoE ports.

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Specifications

Multi Products	Juniper EX2300-C-12P Compact Ethernet Switch
Form Factor (Height / Width / Depth / Weight)	4.4cm/1.72 inches (H); 27.9cm/10.98 inches (W); 23.9cm/9.4 inches (D); 3.17kg/6.99 lbs
GbE Port Density per System	14 (12 access ports + 2 uplink ports)
Port Speed	12x10/100/1000BASE-T
Max. System Power Consumption (without PoE enabled)	24W AC
Total PoE Power Budget	124W
Airflow / Operating Temperature	Fanless / 0°C-40°C
Switching Engine Model	Store and forward
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.

The EX2300 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, providing fanless, silent operation.

Each EX2300-C-12P switch supports two 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-C-12P also features a front-panel mode button that offers a simple interface for bringing devices up and selecting LED modes.

A dedicated rear panel RJ-45 Ethernet port is available for out-of-band management, while a rear-panel USB port can be used to easily upload the Junos OS and configuration files.

Working as an enforcement point within the Access Policy Infrastructure, the EX2300-C-12P 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-C-12P switch 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.

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-C-12P Power over Ethernet Switch, contact your Lenovo representative or Business Partner or visit: lenovo.com/systems/networking

