Juniper EX2300-24P

Datasheet

Product Overview

- The Juniper EX2300-24P is a fixed 1U Ethernet access switch for enterprise campus, branch, and wiring-closet deployments.
- It provides 24 × 10/100/1000BASE-T PoE+ access ports, allowing standard Gigabit endpoints to receive both data and power over Ethernet.
- Four built-in 1/10GbE SFP/SFP+ uplinks support upstream connectivity, link aggregation, or a licensed Virtual Chassis configuration.
- The switch provides a 370W PoE budget and up to 30W per access port for wireless access points, IP phones, cameras, and other powered devices.
- Its 128Gbps bidirectional packet-switching capacity and 95Mpps throughput support wire-speed access switching for the EX2300-24P platform.
- Junos OS, sFlow, integrated AC power, and a compact 17.4 × 1.75 × 12.2 in chassis support manageable fixed access-layer deployments.

Product Highlights

- **24-Port PoE+ Access:** All 24 10/100/1000BASE-T RJ-45 access ports support IEEE 802.3at PoE+ for powered edge devices.
- **370W PoE Budget:** Provides a 370W maximum PoE budget with up to 30W available per access port.
- **1/10GbE Uplinks:** Four SFP/SFP+ uplinks support 1GbE and 10GbE connectivity for upstream links and aggregation.
- **Virtual Chassis Option:** The uplinks can be configured as Virtual Chassis ports to interconnect up to four EX2300 switches when the required license and SFP+ connections are available.

Detailed Features



EX2300-24P

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Component	Specification
Access Ports	24 × 10/100/1000BASE-T PoE+
Uplink Ports	4 × 1/10GbE SFP/SFP+
PoE Budget	370W; up to 30W per port
Packet Switching	64 Gbps unidirectional / 128 Gbps bidirectional
Form Factor	Fixed 1U access switch

24-Port PoE+ Access

All 24 RJ-45 access ports support IEEE 802.3at PoE+. This provides a consistent PoE+ access layer for wireless access points, IP phones, cameras, and other powered endpoints.

370W Power Budget

The EX2300-24P supports a 370W maximum PoE budget and up to 30W per port. Power planning should account for the combined draw of connected devices and the switch operating budget.

Flexible 1/10GbE Uplinks

Four SFP/SFP+ uplinks support 1GbE and 10GbE connectivity. They can connect the access switch to an upstream device or provide a high-speed interconnection path.

Fixed 1U Access Design

The integrated power supply and fixed cooling design are housed in a 1U chassis measuring 17.4 × 1.75 × 12.2 inches. This keeps the switch suitable for standard rack access-layer deployments.

Licensed Virtual Chassis Path

The uplinks can be configured as Virtual Chassis ports to connect up to four EX2300 switches when the required license and SFP+ interconnect conditions are met. This supports centralized operation of a compact switch group.

Junos OS Operations

The switch runs Junos OS and supports the EX2300 family management and Layer 2/Layer 3 feature set. This provides a consistent operating model across Juniper access deployments.

sFlow Traffic Monitoring

sFlow provides traffic monitoring, while the platform also supports QoS queues, VLANs, link aggregation, spanning-tree functions, and routing features documented for EX2300 switches.

Rack and Branch Deployment

The fixed 1U form factor, integrated AC power supply, and four 1/10GbE uplinks support enterprise campus, branch, remote-office, and wiring-closet access designs.

Technical Specifications

Product Specifications

Feature	Value
Product Model	EX2300-24P
Product Type	Fixed 1U Ethernet access switch
Operating System	Junos OS
Access Ports	24 × 10/100/1000BASE-T PoE+
Total Access Ports	24
Uplink Ports	4 × 1/10GbE SFP/SFP+
Management Port	1 × management Ethernet port
Console Port	1 × RJ-45 console port
USB Port	1 × USB port
PoE Standard	IEEE 802.3at PoE+
Maximum PoE Output per Port	30W
Maximum PoE Budget	370W
Power Supply Rating	450W
Data Rate	128 Gbps
Packet Switching Capacity (64-byte packets)	64 Gbps unidirectional / 128 Gbps bidirectional

Feature	Value
Throughput	95 Mpps (wire speed)
Virtual Chassis	Up to 4 switches when the required license and SFP+ interconnects are available
Virtual Chassis Interconnect	80 Gbps
Traffic Monitoring	sFlow
QoS Queues per Port	8
MAC Addresses	16,000
Jumbo Frames	9216 bytes
IPv4 Unicast/Multicast Routes	4096 / 2048
IPv6 Unicast/Multicast Routes	2048 / 1024
VLANs	4093
ARP Entries	1500
CPU	1.25GHz ARM CPU
DRAM	2GB
Flash	2GB
Cooling	Integrated fans
Power Supply	Integrated AC power supply
Maximum System Power Consumption	80W without PoE power draw
AC Input Voltage	100–240 VAC
AC Input Frequency	50/60 Hz nominal
Dimensions (W × H × D)	17.4 × 1.75 × 12.2 in (44.19 × 4.45 × 30.98 cm)
Weight	9.89 lb (4.49 kg)
Operating Temperature	0°C to 45°C
Storage Temperature	−40°C to 70°C
Operating Humidity	10% to 85% noncondensing
Nonoperating Humidity	0% to 95% noncondensing
Operating Altitude	Up to 13,000 ft / 4,000 m
Nonoperating Altitude	Up to 15,000 ft / 4,572 m

Product Comparison

Feature	EX2300-24P	EX2300-24MP	EX2300-48P
Access port configuration	24 × 10/100/1000BASE-T PoE+	16 × 1G PoE+ + 8 × 1/2.5G PoE+	48 × 10/100/1000BASE-T PoE+
Total access ports	24	24	48
Uplink ports	4 × 1/10GbE SFP/SFP+	4 × 1/10GbE SFP/SFP+	4 × 1/10GbE SFP/SFP+
Maximum PoE budget	370W	380W	750W
Maximum PoE output per port	30W	30W	30W
Data rate	128 Gbps	208 Gbps	176 Gbps
Throughput	95 Mpps	154 Mpps	130 Mpps
Virtual Chassis	Up to 4 switches with required license/ interconnects	Up to 4 switches with required license/ interconnects	Up to 4 switches with required license/ interconnects
Dimensions (W × H × D)	17.4 × 1.75 × 12.2 in	17.4 × 1.75 × 10.0 in	17.4 × 1.75 × 12.2 in
Weight	9.89 lb (4.49 kg)	8.82 lb (4 kg)	11.07 lb (5.02 kg)
Best-fit deployment	Gigabit PoE+ access	Multigigabit PoE+ access and wireless APs	Higher-density Gigabit PoE+ access

Accessories

Category	Accessories
Included Accessories	- AC power cord for the installation region
- Two mounting brackets and eight mounting screws	
- Power cord retainer clip	
Optional Accessories	- Wall-mount kit
- Four-post rack-mount kit	
- Serial-to-USB adapter when a laptop lacks a serial port	

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References

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