Juniper EX2300-48P

Datasheet

Product Overview

- The Juniper EX2300-48P is a fixed 1U Ethernet access switch for enterprise campus, branch, and wiring-closet deployments.
- It provides 48 × 10/100/1000BASE-T PoE+ access ports, allowing standard Gigabit endpoints to receive 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 750W PoE budget and up to 30W per access port for wireless access points, IP phones, cameras, and other powered devices.
- Its 176Gbps bidirectional packet-switching capacity and 130Mpps throughput support high-density Gigabit access switching.
- Junos OS, sFlow, integrated AC power, and a 17.4 × 1.75 × 12.2 in fixed 1U chassis support enterprise access-layer deployments.

Product Highlights

- **48-Port PoE+ Access:** All 48 10/100/1000BASE-T RJ-45 access ports support IEEE 802.3at PoE+ for powered edge devices.
- **750W PoE Budget:** Provides a 750W maximum PoE budget with up to 30W 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



EX2300-48P

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Component	Specification
Access Ports	48 × 10/100/1000BASE-T PoE+
Uplink Ports	4 × 1/10GbE SFP/SFP+
PoE Budget	750W; up to 30W per port
Packet Switching	88 Gbps unidirectional / 176 Gbps bidirectional
Form Factor	Fixed 1U access switch

48-Port PoE+ Access

All 48 RJ-45 access ports support IEEE 802.3at PoE+, providing a consistent PoE+ access layer for wireless access points, IP phones, cameras, and other powered endpoints.

750W Power Budget

The EX2300-48P supports a 750W maximum PoE budget and up to 30W per port, supporting larger groups of powered access devices within the available system budget.

Flexible 1/10GbE Uplinks

Four SFP/SFP+ uplinks support 1GbE and 10GbE connectivity for upstream links, aggregation, or switch interconnection.

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, suitable for standard rack access 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.

Junos OS Operations

The switch runs Junos OS and supports the EX2300 family management and Layer 2/Layer 3 feature set.

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.

High-Density Campus Access

The 48-port PoE+ configuration provides more endpoint capacity than 24-port EX2300 variants while retaining four 1/10GbE uplinks and a fixed 1U design.

Technical Specifications

Product Specifications

Feature	Value
Product Model	EX2300-48P
Product Type	Fixed 1U Ethernet access switch
Operating System	Junos OS
Access Ports	48 × 10/100/1000BASE-T PoE+
Total Access Ports	48
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	750W
Power Supply Rating	850W
Data Rate	176 Gbps
Packet Switching Capacity (64-byte packets)	88 Gbps unidirectional / 176 Gbps bidirectional
Throughput	130 Mpps (wire speed)

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

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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[2] Juniper Networks. (n.d.). EX2300 Ethernet Switch Datasheet. Retrieved November 13, 2026, from https://www.juniper.net/content/dam/www/assets/datasheets/us/en/switches/ex2300-ethernet-switch-datasheet.pdf