Juniper EX4300-48P

Datasheet

Product Overview

- The Juniper EX4300-48P is a fixed 1U Ethernet switch for high-density enterprise campus access, aggregation, and data center deployments.
- It provides 48 × 10/100/1000BASE-T PoE+ ports with up to 30W per port for wireless access points, IP phones, cameras, and other powered devices.
- Four built-in 40GbE QSFP+ ports support high-speed interconnection and Virtual Chassis operation, while an optional module adds four 1/10GbE SFP+ ports.
- The switch delivers 248Gbps unidirectional switching capacity, 496Gbps bidirectional capacity, and 369Mpps Layer 2/Layer 3 throughput.
- A 1100W AC power supply provides a 925W PoE budget with one PSU and up to 1440W with two PSUs installed.
- Junos OS, redundant field-replaceable fans and power supplies, and Virtual Chassis support up to ten switches for resilient network growth.

Product Highlights

- **48-Port PoE+ Access:** Forty-eight 10/100/1000BASE-T ports support IEEE 802.3at PoE+ and up to 30W per port.
- **40GbE Virtual Chassis Ports:** Four built-in QSFP+ ports provide 40GbE connectivity for switch interconnection or Virtual Chassis deployment.
- **Optional 1/10GbE Uplink Module:** The EX-UM-4X4SFP module adds four SFP+ ports that support 1GbE or 10GbE transceivers.
- **925W or 1440W PoE Budget:** The EX4300-48P supports a 925W PoE budget with one 1100W PSU and 1440W with two PSUs.

Detailed Features



EX4300-48P

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Component	Specification
Access Ports	48 × 10/100/1000BASE-T PoE+
Built-in Uplink/VCP Ports	4 × 40GbE QSFP+
Optional Uplink Module	EX-UM-4X4SFP, 4 × 1/10GbE SFP+
PoE Budget	925W with one PSU; 1440W with two PSUs
Switching Capacity	248 Gbps unidirectional / 496 Gbps bidirectional

High-Density PoE+ Access

The 48 copper access ports support IEEE 802.3at PoE+ and up to 30W per port for wireless access points, phones, cameras, and IoT endpoints.

Built-in 40GbE Interconnection

Four QSFP+ ports provide 40GbE connectivity and can be used as Virtual Chassis ports or as network ports with suitable optics and cables.

Optional 1/10GbE Expansion

The EX-UM-4X4SFP uplink module provides four ports that accept 1GbE SFP or 10GbE SFP+ transceivers, allowing the uplink mix to match the network design.

Large PoE Power Capacity

The standard 1100W AC supply provides 925W of PoE power. Installing two supplies increases the documented PoE budget to 1440W and adds power redundancy.

Ten-Member Virtual Chassis

The EX4300 family supports up to ten switches in one logical Virtual Chassis, simplifying management and enabling resilient campus architectures.

Junos OS and Modular Operations

Junos OS provides modular switching and routing functions, with graceful process restart and operational tools for enterprise networks.

Layer 2 and Layer 3 Scale

The platform supports VLANs, spanning-tree features, link aggregation, ACLs, IPv4/IPv6 routing, multicast routing, and a 64K MAC address table.

Redundant Field-Replaceable Design

Two fan modules and up to two load-sharing, hot-removable AC power supplies support front-to-back airflow and simplified serviceability.

Technical Specifications

Product Specifications

Feature	Value
Product Model	EX4300-48P
Product Type	Fixed 1U Ethernet access and aggregation switch
Operating System	Junos OS
Access Ports	48 × 10/100/1000BASE-T PoE+
Power per Port	30W
Built-in Network Ports	4 × 40GbE QSFP+
Optional Uplink Module	EX-UM-4X4SFP, 4 × 1/10GbE SFP+
Virtual Chassis Port Count	4
Virtual Chassis Port Type	QSFP+
Virtual Chassis Scale	Up to 10 switches
Management Port	1 × RJ-45 management port
Console Ports	1 × RJ-45 console port + 1 × Mini USB Type B console port
USB Port	1 × USB Type-A port
PoE Standard	IEEE 802.3at PoE+
PoE Budget	925W with one PSU; 1440W with two PSUs

Feature	Value
Power Supply	JPSU-1100-AC-AFO-A 1100W AC power supply; one standard, two supported
Power Redundancy	Load-sharing; hot-removable and hot-insertable
Data Rate	248 Gbps unidirectional / 496 Gbps bidirectional
Packet Switching Capacity (64-byte packets)	248 Gbps unidirectional / 496 Gbps bidirectional
Throughput	369 Mpps (64-byte packets)
Module Slots	1
MAC Addresses	64,000
Jumbo Frames	9216 bytes
IPv4 Unicast Host Routes	32K
IPv4 Unicast Route Prefixes	16K
IPv4 Multicast Routes	16K
IPv6 Unicast Host Routes	15K
IPv6 Unicast Route Prefixes	4K
IPv6 Multicast Routes	16K
IPv6 Neighbor Discovery Entries	32K
ARP Entries	64K
VLAN IDs	1–4094 (4,093 VLAN IDs)
MSTP Instances	64
VSTP Instances	510
LAGs	128; up to 16 ports per LAG
CPU	1.5GHz dual-core PowerPC CPU
DRAM	2GB
Internal Storage	2GB
Cooling	2 × hot-removable EX4300-FAN modules; front-to-back airflow
Dimensions (W × H × D)	17.36 × 1.72 × 16.38 in (44.09 × 4.37 × 41.61 cm)
Depth with Field-Replaceable Units	17.51 in (44.48 cm)
Chassis Weight	13 lb (5.9 kg) spare chassis
Operating Temperature	0°C to 45°C
Storage Temperature	−40°C to 70°C

Feature	Value
Operating Humidity	10% to 85% noncondensing
Nonoperating Humidity	0% to 95% noncondensing
Operating Altitude	Up to 10,000 ft / 3,048 m
Nonoperating Altitude	Up to 16,000 ft / 4,876 m
Airflow Direction	Front-to-back (AFO)

Product Comparison

Feature	EX4300-48P	EX4300-24P	EX4300-48T
Access port configuration	48 × 10/100/1000BASE-T PoE+	24 × 10/100/1000BASE-T PoE+	48 × 10/100/1000BASE-T
Built-in QSFP+ ports	4 × 40GbE	4 × 40GbE	4 × 40GbE
Optional uplink module	EX-UM-4X4SFP, 4 × 1/10GbE SFP+	EX-UM-4X4SFP, 4 × 1/10GbE SFP+	EX-UM-4X4SFP, 4 × 1/10GbE SFP+
Power per port	30W	30W	Not applicable
Maximum PoE budget	1440W with two PSUs	720W with two PSUs	Not applicable
Data rate	248/496 Gbps	224/448 Gbps	248/496 Gbps
Throughput	369 Mpps	333 Mpps	369 Mpps
Virtual Chassis scale	Up to 10 switches	Up to 10 switches	Up to 10 switches
Power supply	1 × 1100W AC PSU standard; 2 supported	1 × 715W AC PSU standard; 2 supported	1 × 350W AC PSU standard; 2 supported
PoE function	IEEE 802.3at PoE+	IEEE 802.3at PoE+	Not supported
Best-fit deployment	High-density PoE access	PoE campus aggregation or access	High-density non-PoE access

Accessories

Category	Accessories
Included Accessories	- JPSU-1100-AC-AFO-A 1100W AC power supply
	- 2 × EX4300-FAN fan modules

Category	Accessories
	- AC power cord for the installation region
Optional Accessories	- Additional JPSU-1100-AC-AFO-A AC power supply for redundancy
	- EX-UM-4X4SFP 4-port 1/10GbE SFP+ uplink module
	- 40GbE QSFP+ transceivers and DAC cables; optics and cables sold separately

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[2] Juniper Networks. (n.d.). EX4300 Hardware Specifications. Retrieved November 16, 2026, from https://apps.juniper.net/hct/product/EX4300/hwspecs