Juniper EX4100-24P

Datasheet

Product Overview

- The Juniper EX4100-24P is a fixed 1U access switch for enterprise campus, branch, and high-density edge networks.
- It provides 24 × 10/100/1000BASE-T PoE+ ports with up to 30W per port for wireless access points, IP phones, cameras, and IoT devices.
- Four 1/10GbE SFP+ uplinks and four 10/25GbE SFP28 Virtual Chassis ports support aggregation and high-speed switch interconnection.
- The EX4100-24P delivers 164Gbps unidirectional switching capacity, 328Gbps bidirectional capacity, and 244Mpps Layer 2/Layer 3 throughput.
- A 920W AC power supply provides PoE+ power, while a second hot-swappable supply can provide load sharing and 1+1 redundancy.
- Junos OS, Mist Wired Assurance, EVPN-VXLAN campus fabric support, and a ten-member Virtual Chassis help simplify scalable campus operations.

Product Highlights

- **24-Port PoE+ Access:** Twenty-four 10/100/1000BASE-T ports deliver up to 30W per port for powered access devices.
- **Flexible High-Speed Uplinks:** Four 1/10GbE SFP+ ports and four 10/25GbE SFP28 ports support uplink, aggregation, and Virtual Chassis connections.
- **740W or 1440W PoE Budget:** The switch supports a 740W PoE budget with one 920W PSU and up to 1440W with two PSUs.
- **Redundant Hot-Swappable Power:** Up to two JPSU-920-AC-AFO power supplies provide load sharing and 1+1 redundancy without powering down the switch.

Detailed Features



EX4100-24P

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Component	Specification
Access Ports	24 × 10/100/1000BASE-T PoE+
Uplink Ports	4 × 1/10GbE SFP+
Virtual Chassis Ports	4 × 10/25GbE SFP28
PoE Budget	740W with one PSU; 1440W with two PSUs
Switching Capacity	164 Gbps unidirectional / 328 Gbps bidirectional

PoE+ Access for Edge Devices

The 24 copper access ports support IEEE 802.3at PoE+ and up to 30W per port, allowing the switch to power access points, phones, cameras, and IoT endpoints.

Dedicated Uplink and Stacking Interfaces

Four 1/10GbE SFP+ ports provide flexible fiber or direct-attach uplinks. Four 10/25GbE SFP28 ports are available for Virtual Chassis and high-speed interconnection.

High PoE Power Capacity

A single 920W AC supply supports a 740W PoE budget. With two power supplies installed, the platform supports up to 1440W of PoE power for dense deployments.

Resilient Power and Cooling

The switch supports two load-sharing, hot-removable power supplies and two redundant hot-removable fan modules with front-to-back airflow.

Ten-Member Virtual Chassis

The EX4100 family supports up to ten switches in one logical Virtual Chassis, with a 200Gbps Virtual Chassis interconnect.

Junos OS and Mist Wired Assurance

Junos OS provides the switching and routing platform, while Mist Wired Assurance supports cloud-ready onboarding, provisioning, and operational visibility.

Campus Fabric and Security Features

The platform supports EVPN-VXLAN campus fabric functions, MACsec-enabled uplinks, VLANs, ACLs, LLDP, 802.1X, and Layer 2 and Layer 3 routing features documented for the EX4100 family.

Compact 1U Enterprise Design

A 1U chassis combines 24 PoE+ access ports, 1/10GbE uplinks, and 10/25GbE stacking ports for wiring closets and distributed campus access.

Technical Specifications

Product Specifications

Feature	Value
Product Model	EX4100-24P
Product Type	Fixed 1U Ethernet access switch
Operating System	Junos OS
Access Ports	24 × 10/100/1000BASE-T PoE+
Power per Port	30W
Uplink Ports	4 × 1/10GbE SFP+
Virtual Chassis Ports	4 × 10/25GbE SFP28
Virtual Chassis Scale	Up to 10 switches
Virtual Chassis Interconnect	200Gbps
Management Port	1 × RJ-45 management port
Console Ports	1 × RJ-45 console port + 1 × USB Type-C console port
USB Port	1 × USB Type-A port
PoE Standard	IEEE 802.3at PoE+
PoE Budget	740W with one PSU; 1440W with two PSUs
System Budget	93W with one PSU; 93W with two PSUs

Feature	Value
Power Supply	JPSU-920-AC-AFO 920W AC power supply; one standard, two supported
Power Redundancy	1+1 load-sharing; hot-removable and hot-insertable
Data Rate	164 Gbps unidirectional / 328 Gbps bidirectional
Packet Switching Capacity (64-byte packets)	164 Gbps unidirectional / 328 Gbps bidirectional
Throughput	244 Mpps (64-byte packets)
Traffic Monitoring	sFlow, IPFIX, and flow-based telemetry
QoS Queues per Port	12 total (8 multicast / 4 unicast)
MAC Addresses	64,000
Jumbo Frames	9216 bytes
IPv4 Unicast Host Routes	32.15K
IPv4 Unicast Route Prefixes	32.65K
IPv4 Multicast Routes	16.1K
IPv6 Unicast Host Routes	16.05K
IPv6 Unicast Route Prefixes	16.2K
IPv6 Multicast Routes	8K
ARP Entries	32K
VLAN IDs	4094
CPU	1.7GHz ARM CPU
DRAM	4GB ECC
Internal Storage	8GB
Cooling	2 × hot-removable fan modules; front-to-back airflow
Dimensions (W × H × D)	17.36 × 1.72 × 13.78 in (44.1 × 4.37 × 35 cm)
Depth with Power Supply Installed	15.05 in (38.24 cm)
Chassis Weight without Power Supply or Fan Module	10 lb (4.54 kg)
Fully Loaded Weight	13.92 lb (6.315 kg)
Operating Temperature	0°C to 45°C
Storage Temperature	−40°C to 70°C
Operating Humidity	5% to 90% noncondensing
Nonoperating Humidity	0% to 90% noncondensing
Operating Altitude	Up to 5,000 ft / 1,524 m

Feature	Value
Nonoperating Altitude	Up to 16,000 ft / 4,876 m
Airflow Direction	Front-to-back (AFO)

Product Comparison

Feature	EX4100-24P	EX4100-48P	EX4100-24T
Access port configuration	24 × 10/100/1000BASE-T PoE+	48 × 10/100/1000BASE-T PoE+	24 × 10/100/1000BASE-T
Uplink ports	4 × 1/10GbE SFP+	4 × 1/10GbE SFP+	4 × 1/10GbE SFP+
Virtual Chassis ports	4 × 10/25GbE SFP28	4 × 10/25GbE SFP28	4 × 10/25GbE SFP28
Power per port	30W	30W	Not applicable
Maximum PoE budget	1440W with two PSUs	1440W with two PSUs	Not applicable
Data rate	164/328 Gbps	188/376 Gbps	164/328 Gbps
Throughput	244 Mpps	279 Mpps	244 Mpps
Virtual Chassis scale	Up to 10 switches	Up to 10 switches	Up to 10 switches
Power supply	1 × 920W AC PSU standard; 2 supported	1 × 920W AC PSU standard; 2 supported	1 × 150W AC PSU standard; 2 supported
PoE function	IEEE 802.3at PoE+	IEEE 802.3at PoE+	Not supported
Best-fit deployment	PoE campus access	High-density PoE campus access	Non-PoE campus access

Accessories

Category	Accessories
Included Accessories	- JPSU-920-AC-AFO 920W AC power supply
	- AC power cord for the installation region
Optional Accessories	- Additional JPSU-920-AC-AFO AC power supply for redundancy
	- SFP+ and SFP28 transceivers; optics sold separately

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[2] Juniper Networks. (n.d.). EX4100 Hardware Specifications. Retrieved November 16, 2026, from https://apps.juniper.net/hct/product/EX4100/hwspecs