Juniper EX4300-48T

Datasheet

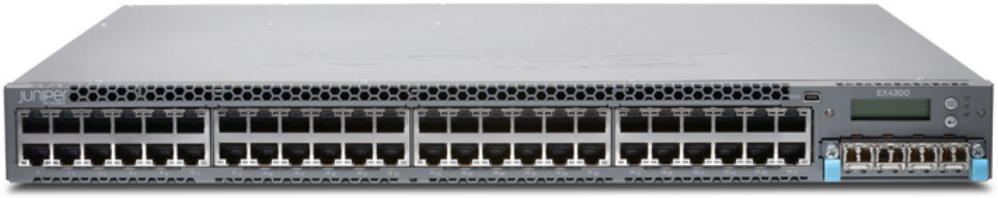
Product Overview

- The Juniper EX4300-48T is a fixed 1U Ethernet switch for high-density enterprise campus access, aggregation, and data center deployments.
- It provides 48 × 10/100/1000BASE-T non-PoE access ports for workstations, servers, phones, cameras, and other wired endpoints.
- 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 non-PoE model uses a 350W AC power supply and fits deployments where endpoint power is supplied locally or through separate equipment.
- The switch delivers 248Gbps unidirectional switching capacity, 496Gbps bidirectional capacity, and 369Mpps Layer 2/Layer 3 throughput.
- 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 Gigabit Access:** Forty-eight 10/100/1000BASE-T ports provide dense non-PoE Gigabit access for enterprise and campus endpoints.
- **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.
- **Non-PoE 350W AC Design:** The EX4300-48T uses a 350W AC power supply for access deployments that do not require integrated endpoint power.

Detailed Features



EX4300-48T

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Component	Specification
Access Ports	48 × 10/100/1000BASE-T
Built-in Uplink/VCP Ports	4 × 40GbE QSFP+
Optional Uplink Module	EX-UM-4X4SFP, 4 × 1/10GbE SFP+
PoE Support	Not supported
Switching Capacity	248 Gbps unidirectional / 496 Gbps bidirectional

High-Density Non-PoE Access

The EX4300-48T provides 48 10/100/1000BASE-T ports in a fixed 1U chassis for enterprise and campus access deployments that use separate endpoint power.

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.

Efficient 350W AC Power

The non-PoE model uses a JPSU-350-AC-AFO-A 350W AC supply, avoiding the larger power budget required by PoE variants.

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	EX4300-48T
Product Type	Fixed 1U Ethernet access and aggregation switch
Operating System	Junos OS
Access Ports	48 × 10/100/1000BASE-T
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 Support	Not supported
Power Supply	JPSU-350-AC-AFO-A 350W AC power supply; one standard, two supported
Power Redundancy	Load-sharing; hot-removable and hot-insertable

Feature	Value
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
Operating Humidity	10% to 85% noncondensing
Nonoperating Humidity	0% to 95% noncondensing
Operating Altitude	Up to 10,000 ft / 3,048 m

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

Product Comparison

Feature	EX4300-48T	EX4300-48P	EX4300-24T
Access port configuration	48 × 10/100/1000BASE-T	48 × 10/100/1000BASE-T PoE+	24 × 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+
PoE support	Not supported	IEEE 802.3at PoE+	Not supported
Maximum PoE budget	Not applicable	1440W with two PSUs	Not applicable
Data rate	248/496 Gbps	248/496 Gbps	224/448 Gbps
Throughput	369 Mpps	369 Mpps	333 Mpps
Virtual Chassis scale	Up to 10 switches	Up to 10 switches	Up to 10 switches
Power supply	1 × 350W AC PSU standard; 2 supported	1 × 1100W AC PSU standard; 2 supported	1 × 350W AC PSU standard; 2 supported
Airflow	Front-to-back	Front-to-back	Front-to-back
Best-fit deployment	High-density non-PoE access	High-density PoE access	Non-PoE campus aggregation or access

Accessories

Category	Accessories
Included Accessories	- JPSU-350-AC-AFO-A 350W AC power supply
	- 2 × EX4300-FAN fan modules
	- AC power cord for the installation region
Optional Accessories	- Additional JPSU-350-AC-AFO-A AC power supply for redundancy

Category	Accessories
	- 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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References

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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