Juniper EX2300-48T

Datasheet

Product Overview

- The Juniper EX2300-48T is a fixed 1U Ethernet access switch for enterprise campus, branch, and wiring-closet deployments.
- It provides 48 × 10/100/1000BASE-T non-PoE access ports for high-density Gigabit connectivity to wired endpoints.
- Four built-in SFP/SFP+ uplinks support 1GbE or 10GbE upstream connectivity, link aggregation, and a licensed Virtual Chassis configuration.
- The non-PoE design fits access deployments where endpoint power is supplied locally or through separate power equipment.
- 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 × 10.2 in fixed 1U chassis support enterprise access-layer deployments.

Product Highlights

- **48-Port Gigabit Access:** All 48 10/100/1000BASE-T RJ-45 ports provide high-density Gigabit access for wired endpoints.
- **Non-PoE Access Design:** The EX2300-48T is designed for deployments that do not require integrated Power over Ethernet.
- **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



EX2300-48T

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Component	Specification
Access Ports	48 × 10/100/1000BASE-T
Uplink Ports	4 × 1/10GbE SFP/SFP+
Packet Switching	88 Gbps unidirectional / 176 Gbps bidirectional
Throughput	130 Mpps
Form Factor	Fixed 1U access switch

48-Port Gigabit Access

The EX2300-48T provides 48 non-PoE 10/100/1000BASE-T ports in a fixed 1U chassis, supporting dense wired access without allocating switch power budget to endpoint devices.

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 × 10.2 inches, suitable for standard rack access deployments.

Junos OS Platform

Junos OS provides the operating platform for the EX2300 family management and Layer 2/Layer 3 feature set.

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.

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 Non-PoE Access

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

Efficient Rack Deployment

The 10.2-inch chassis depth and 8.28-pound chassis weight support compact rack access deployments where PoE is not required.

Technical Specifications

Product Specifications

Feature	Value
Product Model	EX2300-48T
Product Type	Fixed 1U Ethernet access switch
Operating System	Junos OS
Access Ports	48 × 10/100/1000BASE-T
Total Access Ports	48
Uplink Ports	4 × 1/10GbE SFP/SFP+
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
Data Rate	176 Gbps
Packet Switching Capacity (64-byte packets)	88 Gbps unidirectional / 176 Gbps bidirectional
Throughput	130 Mpps (wire speed)
Virtual Chassis	Up to 4 switches when the required license and SFP+ interconnects are available
Virtual Chassis Interconnect	80 Gbps

Feature	Value
Traffic Monitoring	sFlow
QoS Queues per Port	8
MAC Addresses	16,000
Jumbo Frames	9216 bytes
IPv4 Unicast Host Routes	4096
IPv4 Unicast Route Prefixes (RIB)	512
IPv4 Multicast Routes	2048
IPv6 Unicast Host Routes	2048
IPv6 Unicast Route Prefixes (RIB)	512
IPv6 Multicast Routes	1024
VLANs	4093
ARP Entries	1500
CPU	1.25GHz ARM CPU
DRAM	2GB
Flash	2GB
Cooling	2 fixed fans; front-to-back airflow
Power Supply	Integrated AC power supply
Maximum System Power Consumption	70W AC
AC Input Voltage	100–240 VAC
AC Input Frequency	50/60 Hz nominal
Dimensions (W × H × D)	17.4 × 1.75 × 10.2 in (44.20 × 4.45 × 25.91 cm)
Weight	8.28 lb (3.76 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 / 3,962 m
Nonoperating Altitude	Up to 15,000 ft / 4,572 m
Acoustic Noise	34.6 dB maximum
Maintenance Clearance	30 in / 76.2 cm

Product Comparison

Feature	EX2300-48T	EX2300-48P	EX2300-24P
Access port configuration	48 × 10/100/1000BASE-T	48 × 10/100/1000BASE-T PoE+	24 × 10/100/1000BASE-T PoE+
Total access ports	48	48	24
Uplink ports	4 × 1/10GbE SFP/SFP+	4 × 1/10GbE SFP/SFP+	4 × 1/10GbE SFP/SFP+
PoE support	Not supported	IEEE 802.3at PoE+	IEEE 802.3at PoE+
Maximum PoE budget	Not applicable	750W	370W
Data rate	176 Gbps	176 Gbps	128 Gbps
Throughput	130 Mpps	130 Mpps	95 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 × 10.2 in	17.4 × 1.75 × 12.2 in	17.4 × 1.75 × 12.2 in
Weight	8.28 lb (3.76 kg)	11.07 lb (5.02 kg)	9.89 lb (4.49 kg)
Best-fit deployment	High-density non-PoE Gigabit access	High-density Gigabit PoE+ access	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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[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