EX Series Network Switch Comparison

Compare the features & specifications of various models of the EX Series High Performance Ethernet Switches from Juniper Networks.

Access Switches

	EX2300	EX2300-C	EX3400	EX4000	EX4100
	📄 Datasheet	📄 Datasheet	📄 Datasheet	📄 Datasheet	📄 Datasheet
Form factor	Fixed 1 U access	Fixed 1 U access	Fixed 1 U access	Fixed 1 U access	Fixed 1 U access
Port density	1GbE and SFP+ uplink port options	12 x 1GbE and 2 SPF+ 10GbE	1GbE and SFP+/QSFP+ uplink port options	EX4000-8P: 12 (8 host ports + 2 port 1GBaseT Uplinks + 2 port 10GbE SFP+ Uplinks) EX4000-12T/12P: 16 (12 host ports + 2 port SFP+ Uplinks + 2 port 10GbE SFP+ Virtual Chassis/uplinks) EX4000-12MP: 16 (12 host ports + 2 port SFP+ Uplinks + 2 port 10GbE SFP+ Virtual Chassis/uplinks) EX4000-24T/24P: 28 (24 host ports + 2 port SFP+ Uplinks + 2 port 10GbE SFP+ Virtual Chassis/uplinks) EX4000-24MP: 28 (24 host ports + 2 port SFP+ Uplinks +	EX4100-24P/T: 24 x 1GbE PoE/Non-PoE, 4 x 1/10GbE uplinks, and 4 x 10/25GbE stacking/uplinks EX4100-48P/T: 48 x 1GbE PoE/Non-PoE, 4 x 1/10GbE uplinks, and 4 x 10/25GbE stacking/uplinks

	EX2300	EX2300-C	EX3400	EX4000	EX4100
	[PDF] Datasheet	[PDF] Datasheet	[PDF] Datasheet	[PDF] Datasheet	[PDF] Datasheet
				2 port 10GbE SFP+ Virtual Chassis/uplinks) EX4000-48T/48P: 52 (48 host ports + 2 port SFP+ Uplinks + 2 port 10GbE SFP+ Virtual Chassis/uplinks) EX4000-48MP: 52 (48 host ports + 2 port SFP/SFP+ uplinks + 2 port 10GbE SFP+ Virtual Chassis/uplinks)	
Wired Assurance	Yes	Yes	Yes	Yes	Yes
Campus Fabrics	Virtual Chassis	Virtual Chassis	Virtual Chassis	No. 6-member Virtual Chassis.	10-member Virtual Chassis, EVPN-VXLAN
Cloud Managed	Yes	Yes	Yes	Yes	Yes
Dimensions (W x H x D)	EX2300-24T/24P/48T: 17.4 x 1.75 x 10.2 in (44.19 x 4.45 x 25.9 cm) 1 rack unit EX2300-48P: 17.4 x 1.75 x 12.2 in (44.19 x 4.45 x 30.98 cm) 1 rack unit	10.98 x 1.72 x 9.4 in (27.9 x 4.4 x 23.9 cm) 1 rack unit	17.4 x 1.7 x 13.8 in (43.7 x 4.4 x 35 cm) 1 rack unit	EX4000-8P and EX4000-12T: 10.39 x 1.71 x 9.57 in (26.4 x 4.34 x 24.3 cm) EX4000-12P and EX4000-12MP: 10.39 x 1.71 x 9.99 in (26.4 x 4.34 x 25.37 cm) w / PSU Fins EX4000-24T: 17.36 x 1.71 x 8.42 in (44.10 x 4.34 x 21.40 cm) EX4000-24P and EX4000-24MP: 17.36 x 1.71 x 10.16 in (44.10 x 4.34 x 25.80 cm) EX4000-48T: 17.36 x 1.71 x 10.16 in (44.10 x 4.34 x 25.80 cm) EX4000-48P and EX4000-48MP: 17.36 x 1.71 x 11.97 in (44.10 x 4.34 x 30.40 cm)	1.72" (H) x 17.4" (W) x 13.8" (D)
Backplane speed	80 Gbps	40 Gbps	160 Gbps	Up to 80Gbps Virtual Chassis	200 Gbps Virtual Chassis

	EX2300	EX2300-C	EX3400	EX4000	EX4100
	Datasheet	Datasheet	Datasheet	Datasheet	Datasheet
				interconnect	Interconnect
Data rate	EX2300-24P/24T: 128 Gbps EX2300-48T/48P: 176 Gbps	64 Gbps	EX3400-24P/24T/24T-DC: 288 Gbps EX3400-48P/48T: 336 Gbps	EX4000-8P: 30 Gbps (unidirectional)/60 Gbps (bidirectional), EX4000-12P/12T: 52 Gbps (unidirectional)/104 Gbps (bidirectional), EX4000-12MP: 58 Gbps (unidirectional)/116 Gbps (bidirectional), EX4000-24P/24T: 64 Gbps (unidirectional)/128 Gbps (bidirectional), EX4000-24MP: 70 Gbps (unidirectional)/140 Gbps (bidirectional), EX4000-48P/48T: 88 Gbps (unidirectional)/176 Gbps (bidirectional), EX4000-48MP: 100 Gbps (unidirectional) /200 Gbps (bidirectional)	EX4100-24P/T: 164/328 Gbps, EX4100-48P/T: 188/376 Gbps
Throughput	EX2300-24P/24T: 95 Mpps (wire speed) EX2300-48T/48P: 130 Mpps (wire speed)	47 Mpps	EX3400-24P/24T/24T-DC: 214 Mpps (wire speed) EX3400-48P/48T: 250 Mpps (wire speed)	EX4000-8P - 44Mpps, EX4000-12P/T - 77Mpps, EX4000-12MP - 86Mpps, EX4000-24P/T - 95Mpps, EX4000-24MP - 104Mbps, EX4000-48P/T - 130Mpps, EX4000-48MP - 148Mpps	EX4100-24P/T: 244 Mpps, EX4100-48P/T: 279 Mpps
Resiliency	Integrated power supply and fans	Fanless Design	Redundant, field-replaceable power supplies Redundant trunk	Integrated Power supply and fans	Redundant internal load-sharing power supplies;

	EX2300	EX2300-C	EX3400	EX4000	EX4100
	Datasheet	Datasheet	Datasheet	Datasheet	Datasheet
			groups that provide port redundancy and simplify switch configuration		redundant variable speed fans
Traffic monitoring	sFlow	sFlow	sFlow	sFlow	sFlow, IPFIX, flow based telemetry
Quality-of-service (QoS) queues/port	8	8	8 unicast/4 multicast	12 (8 unicast, 4 multicast)	12 (8 unicast, 4 multicast)
MAC addresses	16,000	16,000	32,000	32,000	64000
Jumbo frames	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
IPv4 unicast/multicast routes	4096 / 2048	4096 / 2048	36,000/4,000	1000/1024	32650/16100
IPv6 unicast/multicast routes	2048 / 1024	2048 / 1024	18,000/2,000	1000/1024	16200/8000
Number of VLANs	4093	4093	4,096	1020	N/A
ARP entries	1500	1500	16,000	4,096	32000

	EX4300	EX4400	EX4400-24X	EX4400-48XP	EX4400-48MXP
	Datasheet	Datasheet	Datasheet	Datasheet	Datasheet
Form factor	Fixed 1 U access	Fixed 1 U access	Fixed 1 U distribution/core	Fixed 1U access	Fixed 1 U access
Port density	1GbE and SFP+/QSFP+ uplink port options	EX4400-48F: 36 x 1GbE + 12 x 10GbE and 4 x 10/25GbE uplinks EX4400-24P/24T: 24 x 1GbE and 4 x 10/25GbE uplinks EX4400-48P/48T: 48 x 1GbE and 4 x 10/25GbE uplinks	24 x 1/10GbaseX, 2 x 100GbE/40GbE uplinks. Common EX4400 uplink modules including 4 x 25GbE MACsec AES256, 4 x 10GbE non-MACsec, and 1 x 100GbE MACsec AES256.	EX4400-48XP: 48 x 1GbE and 4 x 10/25GbE uplinks	EX4400-48MXP: 12x100M/1/2.5/5/10G + 36x1/2.5G
Wired Assurance	Yes	Yes	Yes	Yes	Yes

	EX4300	EX4400	EX4400-24X	EX4400-48XP	EX4400-48MXP
	📄 Datasheet	📄 Datasheet	📄 Datasheet	📄 Datasheet	📄 Datasheet
Campus Fabrics	Virtual Chassis	10-member Virtual Chassis, EVPN-VXLAN	EVPN-VXLAN, Virtual Chassis	10-member Virtual Chassis, EVPN-VXLAN	Virtual Chassis, EVPN-VXLAN
Cloud Managed	Yes	Yes	Yes	Yes	Yes
Dimensions (W x H x D)	17.4 x 1.7 x 16.4 in (44.2 x 4.3 x 41.7 cm) 1 rack unit	17.4 x 1.7 x 15.7 in (44.2 x 4.4 x 39.9 cm)	17.39 x 1.72 x 16.93 in (44.17 x 4.37 x 43 cm) 1 rack unit	17.4 x 1.7 x 15.7 in (44.2 x 4.4 x 39.9 cm)	17.4 x 1.7 x 15.7 in (44.2 x 4.4 x 39.9 cm)
Backplane speed	320 Gbps (Virtual Chassis)	400Gbps Virtual Chassis interconnect	400-Gbps Virtual Chassis interconnect	400Gbps Virtual Chassis interconnect	400Gbps Virtual Chassis interconnect
Data rate	EX4300-24P/24T: 448 Gbps EX4300-48P/48T: 496 Gbps EX4300-32F: 464 Gbps	EX4400-48F: 456/912 Gbps EX4400-24P/24T: 324/648 Gbps EX4400-48P/48T: 348/696 Gpbs	1080 Gbps (bidirectional)	EX4400-48XP: 348/696 Gpbs	EX4400-48MXP: 1020 Gbps
Throughput	EX4300-24P/24TF: 333 Mpps (wire speed) EX4300-48P/48T: 369 Mpps (wire speed) EX4300-32F: 345 Mpps (wire speed)	EX4400-48F: 714 Mpps EX4400-24P/24T: 333 Mpps EX4400-48P/48T: 369 Mpps	803 Mpps	EX4400-48XP: 517 Mpps	EX4400-48MXP: 758 Mpps
Resiliency	Internal, hot-swappable redundant power supply; field-replaceable fans; graceful Routing Engine switchover (GRES) in Virtual Chassis configuration	Redundant internal load-sharing power supplies; redundant variable-speed fans	Redundant internal load-sharing power supplies; redundant variable-speed fans	Redundant internal load-sharing power supplies; redundant variable-speed fans	Redundant internal load-sharing power supplies; redundant variable-speed fans
Traffic monitoring	sFlow	sFlow, IPFIX, flow based telemetry	sFlow, IPFIX, flow-based telemetry	sFlow, IPFIX, flow based telemetry	sFlow, IPFIX, flow based telemetry
Quality-of-service (QoS) queues/port	12	12 (8 unicast, 4 multicast)	12 (8 unicast, 4 multicast)	12 (8 unicast, 4 multicast)	12 (8 unicast, 4 multicast)
MAC addresses	64,000	112,000	112,000	112,000	112,000

	EX4300	EX4400	EX4400-24X	EX4400-48XP	EX4400-48MXP
	Datasheet	Datasheet	Datasheet	Datasheet	Datasheet
Jumbo frames	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
IPv4 unicast/multicast routes	32,000/8000	80,000	80,000	80,000	80,000
IPv6 unicast/multicast routes	18,000/4000	40,000	40,000	40,000	40,000
Number of VLANs	4093	4093	4093	4093	4093
ARP entries	64,000	24,000	24,000	24,000	24,000

Aggregation and Core Switches

	EX4600	EX4650	EX9200	EX9250
	Datasheet	Datasheet	Datasheet	Datasheet
Form factor	Fixed 1 U distribution/core	Fixed 1 U distribution/core	Modular 5, 8 or 16 U distribution/core	Fixed 1 or 3 U distribution/core
Port density	24 x 1/10GbE and 4 QSFP+ 40GbE (expansion slots)	48 x 10/25GbE and 8 x 40/100 options	120 x 100GbE, 480 x 10GbE, 440 x 1GbE	24 x 100GbE, 36 x 40GbE, 144 x 10GbE
Wired Assurance	Yes	Yes	N/A	N/A
Campus Fabrics	Virtual Chassis, MC-LAG, EVPN-VXLAN	Virtual Chassis, MC-LAG, ESI-LAG, EVPN-VXLAN	EVPN-VXLAN, MC-LAG, ESI-LAG	EVPN-VXLAN, ESI-LAG
Cloud Managed	Yes	Yes	N/A	N/A
Dimensions (W x H x D)	17.4 x 1.7 x 20.5 in (44.2 x 4.3 x 52.1 cm) 1 rack unit	17.36 x 1.72 x 20.48 in (44.09 x 4.37 x 52.02 cm) 1 rack unit	EX9204: 17.5 x 8.7 x 27.8 in (44.5 x 22.1 x 70.5 cm) 5 rack units EX9208: 17.5 x 14 x 27.8 in (44.5 x 35.6 x 70.5 cm) 8 rack units EX9214: 17.5 x 27.8 x 27.8 in (44.5 x 70.5 x 70.5 cm) 16 rack units	EX9251: 17.4 x 1.75 x 18 in (44.2 x 4.4 x 45.7 cm) EX9253: 17.4 x 5.25 x 30 in (44.2 x 13.3 x 76.2 cm)

	EX4600	EX4650	EX9200	EX9250
	Datasheet	Datasheet	Datasheet	Datasheet
Backplane speed	960 Gbps	N/A	EX9204: Up to 1.6 Tbps per chassis EX9208: Up to 4.8 Tbps per chassis EX9214: Up to 13.2 Tbps per chassis	EX9251: 800 Gbps EX9253: 4.8 Tbps system capacity
Data rate	1.44 Tbps	2 Tbps	EX9200-40T: Up to 40 Gbps EX9200-40F: Up to 40 Gbps EX9200-32XS: Up to 240 Gbps EX9200-4QS: Up to 120 Gbps	EX9251: 400 Gbps EX9253: 2.4 Tbps
Throughput	1.07 Bpps	1.49 Bpps	Up to 240 Gbps per slot (full duplex) on all chassis	EX9251: 800 Gbps EX9253: 4.8 Tbps
Resiliency	Redundant internal load-sharing power supplies; redundant variable-speed fans	Redundant internal load-sharing power supplies; redundant variable-speed fans	4 power supply bays on each chassis for N+1 or N+N redundancy; field-replaceable fan trays; redundant Routing Engines and switch fabrics; graceful Routing Engine switchover (GRES)	EX9251: Dual power supply, up to 5 fans EX9253: 6 power supplies, 4 fans, redundant Routing Engines; graceful Routing Engine switchover (GRES)
Traffic monitoring	sFlow	sFlow	sFlow	sFlow
Quality-of-service (QoS) queues/port	8	8	8	8
MAC addresses	288,000	288,000	1,000,000	1,000,000
Jumbo frames	9216 bytes	9216 bytes	9192 bytes	9192 bytes
IPv4 unicast/multicast routes	128,000/104,000	360,000/104,000	256,000	256,000
IPv6 unicast/multicast routes	64,000/52,000	256,000/52,000	256,000	256,000
Number of VLANs	4096	4093	32,000	32,000
ARP entries	48,000	48,000	256,000	512,000