

# Security Products Comparison Chart

SRX Series and vSRX Performance and Features Matrix		SRX300	SRX320	SRX340	SRX345	SRX380	SRX550M	SRX1500
		Branch / office	Branch / office	Branch / office	Branch / office	Branch / office	Branch / office	Regional / campus
<b>Performance</b>	Firewall throughput (large packets)	1 Gbps	1 Gbps	3 Gbps	5 Gbps	10 Gbps	8 Gbps	9 Gbps
	Firewall throughput (IMIX)	500 Mbps	500 Mbps	1 Gbps	1.7 Gbps	4 Gbps	2.5 Gbps	5 Gbps
	IPsec VPN 3DES/AES throughput (large packets)	300 Mbps	300 Mbps	600 Mbps	800 Mbps	3.5 Gbps	1 Gbps	1.3 Gbps
	IPS throughput	200 Mbps	200 Mbps	400 Mbps	600 Mbps	2 Gbps	800 Mbps	3 Gbps
	Antivirus (Sophos AV) throughput	100 Mbps	100Mbps	150 Mbps	190 Mbps	850 Mbps	290 Mbps	1.2 Gbps
	Cloud Advanced Threat Prevention	N/A	N/A	180 Mbps	230 Mbps	1 Gbps	400 Mbps	1.6 Gbps
	Maximum concurrent sessions	64K	64K	256K	375K	380K	375K	2M
	Connections/sec	5K	5K	10K	15K	50K	27K	90K
	Interfaces	8x1GbE [6 RJ-45 +2 SFP]	8x1GbE[6 RJ-45 + 2 SFP], optional PoE 2 Mini PIM: T1/E1, VDSL2, Serial, 4G/LTE, Wi-Fi	16x1GbE [8 RJ-45 +8 SFP] 4 Mini PIM: T1/E1, VDSL2, Serial, 4G/LTE, Wi-Fi	16x1GbE [8 RJ-45 +8 SFP], 4 Mini PIM: T1/E1, VDSL2, Serial, 4G/LTE, Wi-Fi	16x1GbE [RJ-45 PoE+], [4 10GbE SFP+], 4 Mini PIM: T1/E1, VDSL2, Serial, 4G/LTE, Wi-Fi	6 10/100/ 1000BASE-T+ 4 SFP, 8 I/O slots supporting GbE, PoE, SFP, VDSL, Serial, T1, E1, DS3, E3	16 1GbE (12 Cu+4 SFP) + 4 x10GbE (SFP+)
<b>Firewall</b>	DoS and DDoS protection (Layers 3 and 4)	X	X	X	X	X	X	X
	TCP reassembly for fragmented packet protection	X	X	X	X	X	X	X
	Brute force attack mitigation	X	X	X	X	X	X	X
	SYN cookie protection	X	X	X	X	X	X	X
	Zone-based IP spoofing	X	X	X	X	X	X	X
	Malformed packet protection	X	X	X	X	X	X	X
<b>VPN</b>	IPsec VPN	X	X	X	X	X	X	X
<b>Security Intelligence for advanced threat protection</b>	Advanced Threat Prevention Cloud	N/A	N/A	X	X	X	X	X
<b>NGFW/L7 Security Services</b>	Intrusion Prevention System (IPS)	X	X	X	X	X	X	X
	AppTrack	X	X	X	X	X	X	X
	AppFirewall	X	X	X	X	X	X	X
	AppQoS	X	X	X	X	X	X	X
	AppID (application awareness)	X	X	X	X	X	X	X
	User firewall: On-box	X	X	X	X	X	X	X
	User firewall: Integrated w/Juniper's Unified Access Control (UAC)	X	X	X	X	X	X	X
	SSL Forward Proxy	N/A	N/A	X	X	X	X	X
	SSL Reverse Proxy	N/A	N/A	N/A	N/A	N/A	X	X
<b>UTM<sup>9</sup></b>	Antivirus	X	X	X	X	X	X	X
	Antispam	X	X	X	X	X	X	X
	Web filtering	X	X	X	X	X	X	X
	Content filtering	X	X	X	X	X	X	X
<b>Networking</b>	Routing	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast	OSPF, BGP, RIPv1/v2, MPLS, Multicast
	Multiple WAN, WLAN, LAN options	X	X	X	X	X	X	N/A
<b>Availability</b>	High Availability (A/P, A/A) <sup>1</sup>	X	X	X	X	X	X	X
	Separate control and data planes	X	X	X	X	X	X	X
	In-service software & hardware upgrade	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>NAT</b>	NAT	X	X	X	X	X	X	X
<b>Management</b>	Centralized management	X	X	X	X	X	X	X

SRX Series and vSRX Performance and Features Matrix		SRX4100	SRX4200	SRX4600	SRX5400	SRX5600	SRX5800	vSRX*
		Medium data center/ large enterprise	Medium data center/ large enterprise	Medium data center/ large enterprise	High-performance data center	High-performance data center	High-performance data center	Virtual data center/ public or private cloud
Performance	Firewall throughput (large packets)	40 Gbps	80 Gbps	95 Gbps	480 Gbps**	960 Gbps**	2 Tbps**	98 Gbps
	Firewall throughput (IMIX)	20 Gbps	40 Gbps	75 Gbps	270 Gbps	480 Gbps	1 Tbps	27 Gbps
	IPsec VPN 3DES/AES throughput (large packets)	10.5 Gbps	21 Gbps	55 Gbps	60 Gbps	120 Gbps	230 Gbps	AES+SHA1, 16 Gbps
	IPS throughput	15 Gbps	30 Gbps	65 Gbps	230 Gbps	460 Gbps	860 Gbps	36 Gbps
	Antivirus (Sophos AV) throughput	3 Gbps	6 Gbps	13 Gbps	N/A	5.8 Gbps	13.5 Gbps	9 Gbps
	Advanced Threat Prevention Cloud	4 Gbps	8 Gbps	11 Gbps	10 Gbps	28 Gbps	57 Gbps	6.7 Gbps
	Maximum concurrent sessions	5M	10M	60M	91M	182M	338M	24M
	Connections/sec	250K	500K	600k	1M	2M	4M	612K
	Interfaces	8 1GbE/10GbE (SFP+)	8 1GbE/10GbE (SFP+)	8 10GbE (SFP+) 4 40GbE/100GbE (QSFP28)	Multiple options: 1GbE 10GbE 40GbE 100GbE	Multiple options: 1GbE 10GbE 40GbE 100GbE	Multiple options: 1GbE 10GbE 40GbE 100GbE	Virtual NICs: VMware: 10; VM: 10
Firewall	DoS and DDoS protection (Layers 3 and 4)	X	X	X	X	X	X	X
	TCP reassembly for fragmented packet protection	X	X	X	X	X	X	X
	Brute force attack mitigation	X	X	X	X	X	X	X
	SYN cookie protection	X	X	X	X	X	X	X
	Zone-based IP spoofing	X	X	X	X	X	X	X
	Malformed packet protection	X	X	X	X	X	X	X
	IPsec VPN	X	X	X	X	X	X	X
VPN	IPsec VPN	X	X	X	X	X	X	X
Security Intelligence for advanced threat protection	Advanced Threat Prevention	X	X	X	X	X	X	X

\* Performance, capacity and features listed are based on the vSRX using 17 vCPUs and 32GB memory, running on a KVM Hypervisor and measured under ideal testing conditions. Actual results may vary based on Junos OS releases and by deployments. For vSRX, the reference platform for performance was on a host running on Intel(R) Xeon(R) CPU E7-8890 v3 @ 2.50GHz with Hyper Threading disabled. The NIC used was XL710/ X710 with the i40e vNIC driver. All performance numbers are "up to" and will depend on underlying hardware configuration (some server configurations may perform better).

\*\* Firewall throughput (large packets) numbers on the SRX5400, SRX5600, and SRX5800 platforms are with ExpressPath enabled.

SRX Series and vSRX Performance and Features Matrix		SRX4100	SRX4200	SRX4600	SRX5400	SRX5600	SRX5800	vSRX
		Medium / large data center	Medium / large data center	Medium / large data center	High-performance data center	High-performance data center	High-performance data center	Virtual data center/public or private cloud
NGFW/L7 Security Services	Intrusion Prevention System (IPS)	X	X	X	X	X	X	X
	AppTrack	X	X	X	X	X	X	X
	AppFirewall	X	X	X	X	X	X	X
	AppQoS	X	X	X	X	X	X	X
	AppID (application awareness)	X	X	X	X	X	X	X
	User firewall: On-box	X	X	X	X	X	X	X
	User firewall: Integrated w/Juniper's Unified Access Control (UAC)	X	X	X	X	X	X	X
	SSL Forward Proxy	X	X	X	X	X	X	X
	SSL Reverse Proxy	X	X	X	X	X	X	X
UTM <sup>1</sup>	Antivirus	X	X	X	X	X	X	X
	Antispam	X	X	X	X	X	X	X
	Web filtering	X	X	X	X	X	X	X
	Content filtering	X	X	X	X	X	X	X
Networking	Routing	OSPF, BGP, RIPv1/v2, Multicast						
	Multiple WAN, WLAN, LAN options	N/A						
Availability	High Availability (A/P, A/A) <sup>1</sup>	X	X	X	X	X	X	X
	Separate control and data planes	X	X	X	X	X	X	X
	In-service software & hardware upgrade	X	X	X	X	X	X	N/A
NAT	NAT	X	X	X	X	X	X	X
Management	Centralized management	X	X	X	X	X	X	X

1. High availability definitions: A/P = Active / Passive mode, A/A = Active / Active mode.

## Juniper Networks SRX Series Datasheets

SRX300 Line of Services Gateways datasheet:

[www.juniper.net/assets/us/en/local/pdf/datasheets/1000550-en.pdf](http://www.juniper.net/assets/us/en/local/pdf/datasheets/1000550-en.pdf)

SRX550M Services Gateway datasheet:

[www.juniper.net/assets/us/en/local/pdf/datasheets/1000669-en.pdf](http://www.juniper.net/assets/us/en/local/pdf/datasheets/1000669-en.pdf)

SRX1500 Services Gateway datasheet:

[www.juniper.net/assets/us/en/local/pdf/datasheets/1000551-en.pdf](http://www.juniper.net/assets/us/en/local/pdf/datasheets/1000551-en.pdf)

SRX4000 Line of Services Gateways datasheet:

[www.juniper.net/assets/us/en/local/pdf/datasheets/1000600-en.pdf](http://www.juniper.net/assets/us/en/local/pdf/datasheets/1000600-en.pdf)

SRX4600 Services Gateway datasheet:

<https://www.juniper.net/assets/us/en/local/pdf/datasheets/1000628-en.pdf>

SRX5000 Line of Services Gateways datasheet:

[www.juniper.net/us/en/local/pdf/datasheets/1000254-en.pdf](http://www.juniper.net/us/en/local/pdf/datasheets/1000254-en.pdf)

vSRX Virtual Services Gateway datasheet:

[www.juniper.net/us/en/local/pdf/datasheets/1000489-en.pdf](http://www.juniper.net/us/en/local/pdf/datasheets/1000489-en.pdf)

## Juniper Networks Service and Support

Juniper Networks is the leader in performance-enabling services that are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value for your network. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit [www.juniper.net/us/en/products-services](http://www.juniper.net/us/en/products-services).

## About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at [Juniper Networks](#) or connect with Juniper on [Twitter](#) and [Facebook](#).

### Corporate and Sales Headquarters

Juniper Networks, Inc.  
1133 Innovation Way  
Sunnyvale, CA 94089 USA  
Phone: 888.JUNIPER (888.586.4737)  
or +1.408.745.2000  
Fax: +1.408.745.2100  
[www.juniper.net](http://www.juniper.net)

### APAC and EMEA Headquarters

Juniper Networks International B.V.  
Boeing Avenue 240  
1119 PZ Schiphol-Rijk  
Amsterdam, The Netherlands  
Phone: +31.0.207.125.700  
Fax: +31.0.207.125.701

Copyright 2020 Juniper Networks, Inc. All rights reserved. Juniper Networks, the Juniper Networks logo, Juniper, and Junos are registered trademarks of Juniper Networks, Inc. in the United States and other countries. All other trademarks, service marks, registered marks, or registered service marks are the property of their respective owners. Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

