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Juniper SRX300 Services Gateway

Datasheet

Product Overview

- The Juniper SRX300-SYS-JB is a compact desktop security services gateway for small branch offices and retail environments.
- It combines firewall, routing, switching, NAT, IPSec VPN, and Junos Base software in one appliance.
- The hardware provides eight 1GbE Ethernet ports and two 1GbE SFP ports for copper and fiber connectivity.
- The SRX300 supports up to 1.9 Gbps firewall performance, 200 Mbps IPS performance, and 336 Mbps IPsec VPN performance.
- It supports up to 64,000 concurrent sessions, 5,000 new sessions per second, and 1,000 maximum security policies.
- The fanless desktop chassis includes 4GB DRAM and 8GB flash storage.

Product Highlights

- **Compact Branch Security Gateway:** Combines routing, switching, NAT, firewall, and IPSec VPN functions for small branch and retail deployments.
- **Mixed Copper and Fiber Access:** Provides 8 × 1GbE ports and 2 × 1GbE SFP ports for flexible WAN and LAN connectivity.
- **Junos Base Software Bundle:** Includes Junos Software Base with firewall, NAT, IPSec, routing, MPLS, and switching functions.
- **Fanless Desktop Design:** Uses convection cooling with 0 dB acoustic noise for quiet branch and retail environments.

Detailed Features



SRX300 Services Gateway

Quote | Help

Component	Specification
Product Type	SRX300 security services gateway
Configuration	Junos Base (JB) software, external DC power
Form Factor	Desktop
Onboard Ethernet	8 × 1GbE
SFP Ports	2 × 1GbE
Memory and Storage	4GB DRAM, 8GB flash
Expansion	No Mini PIM slots

Compact Branch Security

The SRX300-SYS-JB integrates firewall, routing, switching, NAT, IPSec VPN, MPLS, and management functions in a desktop appliance for small branch and retail sites.

Flexible Gigabit Connectivity

Eight 1GbE ports and two 1GbE SFP ports support copper LAN connections and fiber uplinks in mixed-access deployments.

Junos Base Integration

The SKU combines SRX300 hardware with Junos Software Base, including firewall, NAT, IPSec, routing, MPLS, and switching functions.

Security Policy Scale

Up to 1,000 security policies, 64,000 concurrent sessions, and 5,000 sustained new sessions per second support branch edge traffic management.

Fanless Quiet Operation

Convection cooling and 0 dB acoustic noise suit office, retail, and other environments where fan noise is undesirable.

Compact Desktop Chassis

The 35 mm-high desktop unit measures 321 × 193 mm in footprint and weighs approximately 4.38 lb.

MACsec-Capable Ports

Two 1GbE ports are identified by Juniper as MACsec-capable for link-layer protection.

Management Flexibility

CLI, J-Web, Junos Space, SNMP, Telnet, and SSH provide local and centralized management options.

Technical Specifications

Product Specifications

Feature	Value
Product Model	SRX300-SYS-JB
Product Family	SRX300 Firewall
License Configuration	Junos Base (JB/JSB)
Product Form Factor	Desktop
Onboard Ethernet Ports	8 × 1GbE
Onboard SFP Ports	2 × 1GbE
MACsec-Capable Ports	2 × 1GbE
Mini PIM Slots	0
Console	Console port
USB	USB port
System Memory	4GB DRAM
Internal Storage	8GB flash
Firewall Throughput (1518B)	1.9 Gbps
Firewall Throughput (64B)	200 Kpps
Firewall Throughput (IMIX)	600 Mbps
IPS Performance	200 Mbps

Feature	Value
IPsec VPN Throughput (1400B)	0.336 Gbps
IPsec VPN Throughput (IMIX)	0.116 Gbps
Routing with Packet Mode (64B)	300 Kpps
Routing with Packet Mode (1518B)	1.5 Gbps
Routing with Packet Mode (IMIX)	800 Mbps
NGFW Performance	0.226 Gbps CPS
Secure Web Access Firewall	0.171 Gbps CPS
Application Visibility and Control	0.5 Gbps
Maximum Concurrent Sessions	64,000
New Sessions per Second	5,000 sustained TCP 3-way
Maximum Security Policies	1,000
Maximum Security Zones	16
Maximum Virtual Routers	32
NAT Rules	1,000
IPsec VPN Tunnels	256
GRE Tunnels	256
MAC Address Table	15,000
VLAN IDs	1,000
Maximum SSL VPN Users	25
Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 70°C
Operating Humidity	10% to 90%, noncondensing
Non-Operating Humidity	5% to 95%, noncondensing
Cooling	Convection, fanless
Acoustic Noise	0 dB
Average Power Consumption	24.9W
Average Heat Dissipation	85 BTU/hour
DC Input	12 VDC, 2.8A maximum
Dimensions (H × W × D)	35 × 321 × 193 mm
Weight	4.38 lb

Feature	Value
Operating Altitude	Up to 3,048 m

Product Comparison

Feature	SRX300-SYS-JB	SRX320-SYS-JB	SRX340-SYS-JB
Firewall Throughput	1.9 Gbps	1.9 Gbps	4.7 Gbps
IPS Performance	200 Mbps	200 Mbps	400 Mbps
IPsec VPN Throughput	336 Mbps	336 Mbps	733 Mbps
Maximum Concurrent Sessions	64,000	64,000	256,000
Onboard Ethernet	8 × 1GbE	8 × 1GbE	16 × 1GbE
Onboard SFP	2 × 1GbE	2 × 1GbE	2 × 1GbE
PoE+ Ports	0	6	0
Mini PIM Slots	0	2	4
Form Factor	Desktop	Desktop	Desktop / 1U rack-mount capable
Cooling	Fanless convection	Fanless convection	Fan-based

Accessories

Category	Accessories
Included Accessories	- Power adapter
	- Power cable
Optional Accessories	- Rack-mount kit (RMK), not included

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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

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