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Juniper SRX380 Services Gateway

Datasheet

Product Overview

- The Juniper SRX380-P-SYS-JB-AC is a 1U security services gateway for high-performance enterprise branch and edge deployments.
- It combines next-generation firewall, routing, switching, WAN connectivity, NAT, IPSec VPN, MPLS, and Junos Base software.
- The PoE model provides sixteen 1GbE PoE+ ports and four 10GbE SFP+ ports for dense copper access and high-speed uplinks.
- The SRX380 delivers up to 20 Gbps firewall performance, 2 Gbps IPS performance, and 4.4 Gbps IPsec VPN performance.
- It supports up to 380,000 concurrent sessions, 4,000 security policies, and 2,048 IPsec VPN tunnels.
- The configuration includes 4GB DRAM, a 100GB SSD, four Mini PIM slots, and a single AC power supply with rack-mount hardware.

Product Highlights

- **High-Density PoE+ Access:** Provides 16 × 1GbE PoE+ ports for powering connected access points, phones, cameras, and other edge devices.
- **Four 10GbE SFP+ Uplinks:** Adds 4 × 10GbE SFP+ ports for high-bandwidth aggregation and fast interconnection with upstream switches.
- **High-Performance Security:** Delivers up to 20 Gbps firewall throughput, 2 Gbps IPS performance, and 4.4 Gbps IPsec VPN throughput.
- **Expandable 1U Platform:** Includes four Mini PIM slots, 100GB SSD storage, and Junos Base software for scalable branch edge services.

Detailed Features



SRX380 Services Gateway

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Component	Specification
Product Type	SRX380 security services gateway
Configuration	Junos Base (JB), PoE+ model, single AC power supply
Form Factor	1U rack-mountable
Onboard Interfaces	16 × 1GbE PoE+, 4 × 10GbE SFP+
Expansion	4 Mini PIM slots
Memory and Storage	4GB DRAM, 100GB SSD

Dense PoE+ Branch Access

The SRX380-P-SYS-JB-AC provides sixteen 1GbE PoE+ ports to combine secure access switching with power delivery for branch edge devices.

High-Speed Uplink Capacity

Four 10GbE SFP+ ports support high-bandwidth uplinks and aggregation, reducing bottlenecks between the branch edge and the core network.

Enterprise-Scale Security Performance

Firewall throughput up to 20 Gbps, IPS performance up to 2 Gbps, and IPsec VPN throughput up to 4.4 Gbps support demanding traffic loads.

Large Security and VPN Scale

The platform supports up to 380,000 concurrent sessions, 4,000 security policies, 2,048 IPsec VPN tunnels, and 2,048 GRE tunnels.

Flexible WAN Expansion

Four Mini PIM slots support additional WAN and interface modules for branch designs that require more connectivity options.

Junos Base Software Integration

The included Junos Software Base provides firewall, NAT, IPSec, routing, MPLS, and switching functions in one platform.

SSD-Based Local Storage

The SKU includes a 100GB SSD and an additional SSD slot, supporting local storage requirements for logs and services.

Redundant AC Power Architecture

The chassis supports 1+1 hot-removable AC PSU operation, while this ordering configuration includes a single AC power supply.

Technical Specifications

Product Specifications

Feature	Value
Product Model	SRX380-P-SYS-JB-AC
Product Family	SRX380 Firewall
License Configuration	Junos Base (JB/JSB)
First OS Release Supported	Junos OS 20.1R1
Product Form Factor	1U
RJ-45 Network Ports	16 × 1GbE PoE+
SFP+ Network Ports	4 × 10GbE
MACsec-Capable Ports	16 × 1GbE and 4 × 10GbE
Console Ports	2; RJ-45 serial and Mini USB Type B
Management Port	1 × RJ-45
USB Port	1 × USB 3.0 Type A
System Memory	4GB DRAM
Internal Storage	100GB SSD
Additional SSD Slot	Supported
Mini PIM Slots	4
Included Power Supply	Single AC power supply

Feature	Value
Power Supply Chassis Capability	2 AC PSU positions, 1+1 redundancy, hot-removable
AC Average Power Consumption	150 W
AC Maximum Power Consumption	172 W
AC Maximum Power with PoE Device	738.04 W
Maximum Current Consumption	1.79 A
Maximum Inrush Current	11 A at 220 V
Firewall Throughput (1518B)	20 Gbps
Firewall Throughput (64B)	1,700 Kpps
Firewall Throughput (IMIX)	6.5 Gbps
IPS Performance	2 Gbps
IPsec VPN Throughput (1400B)	4.4 Gbps
IPsec VPN Throughput (IMIX)	1.4 Gbps
Routing with Packet Mode (64B)	1,700 Kpps
Routing with Packet Mode (1518B)	5 Gbps
Routing with Packet Mode (IMIX)	10 Gbps
NGFW Performance	2.5 Gbps CPS
Secure Web Access Firewall	1.8 Gbps CPS
Application Visibility and Control	6 Gbps
AppID Sessions	64,000
Maximum Concurrent Sessions	380,000
Maximum Security Policies	4,000
Maximum Security Zones	128
Maximum Virtual Routers	128
NAT Rules	3,000
IPsec VPN Tunnels	2,048
GRE Tunnels	2,048
IPS Sessions	64,000
Maximum SSL VPN Users	500
MAC Address Table	16,000
VLAN IDs	3,000

Feature	Value
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Operating Humidity	10% to 90%, noncondensing
Non-Operating Humidity	5% to 95%, noncondensing
Cooling	3 fixed fans, front-to-back airflow
Acoustic Noise	50 dB maximum
AC Average Heat Dissipation	511.5 BTU/hour
Operating Altitude	Up to 2,000 m
Dimensions (H × W × D)	4.3688 × 44.0944 × 47.498 cm
Depth with FRUs	51.9938 cm
Weight as Shipped	15 lb / 6.8 kg
Fully Configured Weight without Line Cards	16.76 lb / 7.6 kg

Product Comparison

Feature	SRX380-P-SYS-JB-AC	SRX345-SYS-JB	SRX340-SYS-JB
Firewall Throughput	20 Gbps	5 Gbps	4.7 Gbps
IPS Performance	2 Gbps	600 Mbps	400 Mbps
IPsec VPN Throughput	4.4 Gbps	977 Mbps	733 Mbps
Maximum Concurrent Sessions	380,000	375,000	256,000
Built-in Network Ports	16 × 1GbE PoE+ + 4 × 10GbE SFP+	16 × 1GbE	8 × 1GbE RJ-45 + 8 × 1GbE SFP
MACsec-Capable Ports	16 × 1GbE + 4 × 10GbE	16 × 1GbE	16 × 1GbE
PoE+ Ports	16	0	0
10GbE Ports	4 × SFP+	0	0
Mini PIM Slots	4	4	4
Memory and Storage	4GB DRAM, 100GB SSD	4GB DRAM, 8GB flash	4GB DRAM, 8GB flash
Power Configuration	Single AC PSU included; 1+1 chassis capability	Single AC PSU	Single AC PSU

Accessories

Category	Accessories
Included Accessories	- Single AC power supply
	- Power cable
	- Rack-mount kit (RMK)
	- USB console cable (Mini-B to Type-A)
Optional Accessories	- Mini PIM modules
	- Additional AC power supply for 1+1 redundancy
	- 100GB SSD storage unit for the additional SSD slot

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