Juniper SRX550M Firewall

Datasheet

Product Overview

- The Juniper SRX550-645AP-M is an SRX550M services gateway for demanding branch, regional office, and distributed enterprise deployments.
- It combines next-generation firewall, routing, switching, WAN connectivity, SD-WAN, NAT, VPN, and advanced threat mitigation services.
- The 2U platform provides six 10/100/1000BASE-T ports, four GbE SFP ports, six GPIM slots, and two Mini-PIM slots.
- The gateway supports up to 7 Gbps firewall performance, 800 Mbps IPS performance, and 1.0 Gbps VPN performance.
- It supports up to 375,000 concurrent sessions, 27,000 sustained new sessions per second, and 7,256 security policies.
- This configuration includes 4GB DRAM, 8GB CompactFlash storage, and one 645W AC power supply with 247W PoE power.

Product Highlights

- **Modular Branch Connectivity:** Six GPIM slots and two Mini-PIM slots support a broad range of WAN, LAN, serial, cellular, and wireless interface options.
- **Integrated PoE Power:** The included 645W AC power supply provides up to 247W of PoE power for supported 802.3af/at deployments.
- **High-Performance Security:** Delivers up to 7 Gbps firewall throughput, 800 Mbps IPS performance, and 1.0 Gbps VPN performance.
- **Flexible High-Availability Power:** The chassis has dual power-supply slots and supports hot-swappable redundant power operation.

Detailed Features



SRX550M Firewall

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Component	Specification
Product Type	SRX550M services gateway
Configuration	645W AC PoE power supply, 247W PoE capacity
Form Factor	2U rack-mountable
Fixed Interfaces	6 × 10/100/1000BASE-T, 4 × GbE SFP
Expansion	6 GPIM slots, 2 Mini-PIM slots
Memory and Storage	4GB DRAM, 8GB internal CompactFlash

Modular WAN and LAN Expansion

Six GPIM slots and two Mini-PIM slots allow the SRX550M to combine multiple interface types and adapt to branch, regional, and service-provider edge requirements.

Copper and Fiber Access

Six 10/100/1000BASE-T ports and four GbE SFP ports provide fixed copper access and fiber uplink options before adding interface modules.

PoE-Enabled Branch Services

The included 645W AC supply provides 247W of PoE power and supports up to 40 802.3af/at PoE ports when compatible interfaces are installed.

Security and Session Scale

The platform supports up to 375,000 concurrent sessions, 27,000 sustained new sessions per second, 7,256 policies, and 6,144 NAT rules.

Advanced Threat Protection

The SRX550M supports IPS, antivirus, antispam, enhanced Web filtering, Advanced Threat Prevention Cloud, and threat intelligence services through the applicable licenses.

Secure SD-WAN Capabilities

Application-based policy routing, AppQoE, WAN monitoring, and link failover support consistent application performance across distributed sites.

Redundant Power Architecture

The chassis provides dual power-supply slots and hot-swappable redundancy, while this SKU ships with one 645W AC PoE supply.

Centralized and Local Management

CLI, Web UI, SSH, Telnet, SNMP, Security Director, Security Director Cloud, Mist AI, Python, Junos PyEZ, and Ansible support varied operations models.

Technical Specifications

Product Specifications

Feature	Value
Product Model	SRX550-645AP-M
Product Family	SRX550M Firewall
Junos OS Software Version Tested	Junos OS 12.1
Product Form Factor	2U
Fixed Copper Ports	6 × 10/100/1000BASE-T
Fixed Fiber Ports	4 × GbE SFP
GPIM Slots	6
Mini-PIM Slots	2
MACsec-Capable Ports	0
PoE Capability	Up to 40 × 802.3af/at ports, maximum 247W
USB Ports	2
System Memory	4GB DRAM
Internal Storage	8GB CompactFlash
Memory Slots	2 DIMM
Power Supply Included	1 × 645W AC PoE power supply
Power Supply Slots	2; supports single or dual 645W AC supplies

Feature	Value
AC Input	100–240 VAC, 50–60 Hz
Average Power Consumption	85 W
Maximum PoE Power	247W redundant or 494W non-redundant
Maximum Current Consumption	7.5A at 100 VAC with single PSU and PoE; 10.5A at 100 VAC with dual PSU and PoE
Maximum Inrush Current	45A for half-cycle
Average Heat Dissipation	238 BTU/hour
Maximum Heat Dissipation	1,449 BTU/hour
Firewall Performance (Large Packets)	7 Gbps
Firewall Performance (IMIX)	2 Gbps
IPS Performance	800 Mbps
VPN Performance	1.0 Gbps
Maximum Concurrent Sessions	375,000
New Sessions per Second	27,000 sustained TCP 3-way
Maximum Security Policies	7,256
Security Intelligence Feed Entries	600,000 IP addresses and 50,000 URLs
Route Table Size (IPv4/IPv6 RIB/FIB)	1.5 million / 750,000
NAT Rules	6,144
MAC Address Table	15,000
SSL VPN Concurrent Users	500
GRE Tunnels	1,500
Maximum Security Zones	96
Maximum Virtual Routers	128
Maximum VLANs	3,967
AppID Sessions	65,000
IPS Sessions	64,000
URLF Sessions	64,000
Operating Temperature	0°C to 40°C
Nonoperating Temperature	-20°C to 70°C
Operating Humidity	10% to 90%, noncondensing
Nonoperating Humidity	5% to 95%, noncondensing

Feature	Value
Cooling	Fans
Acoustic Noise	51.8 dB
Dimensions (W × H × D)	44.4 × 8.8 × 46.2 cm
Weight	21.96 lb / 9.96 kg, device and one power supply, no interface modules
Rack Mounting	Supported; rack-mount kit included

Product Comparison

Feature	SRX550-645AP-M	SRX550-645DP-M	SRX550-CHAS-M
Power Supply	645W AC PoE PSU included	645W DC PoE PSU included	Not included
Power Cord	Included	Not included	Not included
PoE Power	247W	247W	Requires installed PSU
Fixed Copper Ports	6 × 10/100/1000BASE-T	6 × 10/100/1000BASE-T	6 × 10/100/1000BASE-T
Fixed Fiber Ports	4 × GbE SFP	4 × GbE SFP	4 × GbE SFP
GPIM Slots	6	6	6
Mini-PIM Slots	2	2	2
System Memory	4GB DRAM	4GB DRAM	Not specified for chassis-only ordering
Internal Storage	8GB CompactFlash	8GB CompactFlash	Not specified for chassis-only ordering
Rack-Mount Kit	Included	Not included	Not included
Power Input	100–240 VAC	43–56 VDC	Depends on installed PSU

Accessories

Category	Accessories
Included Accessories	- 645W AC PoE power supply
	- Power cord
	- Rack-mount kit
Optional Accessories	- SRX600-PWR-645AC-POE spare AC PoE power supply
	- GPIM, XPIM, and Mini-PIM interface modules

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[2] Juniper Networks. (n.d.). SRX550 Services Gateway Specifications. Retrieved November 23, 2026, from https://www.juniper.net/gb/en/products/security/srx-series/srx550-enterprise-firewall/specs.html

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