



# SRX SERIES SERVICES GATEWAYS FOR THE BRANCH

SRX100, SRX210, SRX220, SRX240 AND SRX650

## Product Overview

Juniper Networks SRX Series Services Gateways for the branch are secure routers that provide essential capabilities that connect, secure, and manage workforce locations sized from handfuls to hundreds of users. By consolidating fast, highly available switching, routing, security, and applications capabilities in a single device, enterprises can economically deliver new services, safe connectivity, and a satisfying end user experience. All SRX Series Services Gateways, including products scaled for the branch, campus, and data center applications, are powered by Juniper Networks Junos OS—the proven operating system that provides unmatched consistency, better performance with services, and superior infrastructure protection at a lower total cost of ownership.

## Product Description

The Juniper Networks® SRX Series Services Gateways for the branch joins Juniper Networks SRX Series for the data center, EX Series Ethernet Switches, M Series Multiservice Edge Routers, MX Series 3D Universal Edge Routers, and T Series Core Routers. This provides a single Juniper Networks Junos® operating system-based portfolio of unprecedented scale. With Junos OS, enterprises and service providers can lower deployment and operational costs across their entire distributed workforce.

- SRX Series for the branch runs Junos OS, the proven operating system that is used by core Internet routers in all of the top 100 service providers around the world. The rigorously tested carrier-class routing features of IPv4/IPv6, OSPF, BGP, and multicast have been proven in over 15 years of worldwide deployments.
- SRX Series for the branch provides perimeter security, content security, access control, and network-wide threat visibility and control. Using zones and policies, network administrators can configure and deploy branch SRX Series gateways quickly and securely. The SRX Series also includes wizards for firewall, IPsec VPN, NAT, and initial setup to simplify configurations out of the box.
- Policy-based VPNs support more complex security architectures that require dynamic addressing and split tunneling. For content security, SRX Series for the branch offers a complete suite of Unified Threat Management (UTM) services consisting of: intrusion prevention system (IPS), on-box and cloud-based antivirus, antispam, Web filtering, and data loss prevention to protect your network from the latest content-borne threats. Select SRX Series models feature Content Security Accelerator for high-performance IPS and antivirus scanning. The branch SRX Series integrates with other Juniper security products to deliver enterprise-wide unified access control (UAC) and adaptive threat management. These capabilities give security professionals powerful tools in the fight against cybercrime and data loss.
- SRX Series for the branch are secure routers that bring high performance and proven deployment capabilities to enterprises that need to build a worldwide network of thousands of sites. The wide variety of options allow configuration of performance, functionality, and price scaled to support from a handful to thousands of users. Ethernet, serial, T1/E1, DS3/E3, xDSL, DOCSIS3, Wi-Fi, and 3G/4G/LTE wireless are all available options for WAN or Internet connectivity to securely link your sites. Multiple form factors allow you to make cost-effective choices for mission-critical deployments. Managing the network is easy using the proven Junos OS command-line interface (CLI), scripting capabilities, a simple-to-use Web-based GUI, or Network and Security Manager (NSM) for large scale deployments.

## Architecture and Key Components

### Key Hardware Features of the Branch SRX Series Products

PRODUCT	DESCRIPTION
SRX100 Services Gateway	<ul style="list-style-type: none"> <li>8 10/100 Ethernet LAN ports and 1 USB port (support for 3G USB<sup>4</sup>)</li> <li>Full UTM<sup>1</sup>; antivirus<sup>1</sup>, antispam<sup>1</sup>, Web filtering<sup>1</sup>, intrusion prevention system<sup>1</sup> (with high memory version)</li> <li>Unified Access Control (UAC) and content filtering</li> <li>1 GB<sup>2</sup> DRAM, 1 GB flash default (512 MB DRAM accessible in low memory version)</li> </ul>
SRX210 Services Gateway	<ul style="list-style-type: none"> <li>2 10/100/1000 Ethernet and 6 10/100 Ethernet LAN ports, 1 Mini-PIM slot, and 2 USB ports (support for 3G USB<sup>4</sup>)</li> <li>Factory option of 4 dynamic Power over Ethernet (PoE) ports 802.3af</li> <li>Support for T1/E1, serial, ADSL2/2+, VDSL, G.SHDSL, DOCSIS3, and Ethernet small form-factor pluggable transceiver (SFP)</li> <li>Content Security Accelerator hardware for faster performance of IPS and ExpressAV (with high memory version)</li> <li>Full UTM<sup>1</sup>; antivirus<sup>1</sup>, antispam<sup>1</sup>, Web filtering<sup>1</sup>, intrusion prevention system<sup>1</sup> (with high memory version)</li> <li>Unified Access Control (UAC) and content filtering</li> <li>1 GB<sup>2</sup> DRAM, 1 GB flash default (512 MB DRAM accessible in low memory version)</li> </ul>
SRX220 Services Gateway	<ul style="list-style-type: none"> <li>8 10/100/1000 Ethernet LAN ports, 2 Mini-PIM slots</li> <li>Factory option of 8 PoE ports; PoE+ 802.3at, backwards compatible with 802.3af</li> <li>Support for T1/E1, serial, ADSL2/2+, VDSL, G.SHDSL, DOCSIS3, and Ethernet SF<sup>4</sup></li> <li>Content Security Accelerator hardware for faster performance of IPS and ExpressAV</li> <li>Full UTM<sup>1</sup>; antivirus, antispam, Web filtering, intrusion prevention system</li> <li>Unified Access Control and content filtering</li> <li>1 GB DRAM, 1 GB flash default</li> </ul>
SRX240 Services Gateway	<ul style="list-style-type: none"> <li>16 10/100/1000 Ethernet LAN ports, 4 Mini-PIM slots</li> <li>Factory option of 16 PoE ports; PoE+ 802.3at, backwards compatible with 802.3af</li> <li>Support for T1/E1, serial, ADSL2/2+, VDSL, G.SHDSL, DOCSIS3, and Ethernet SFP11</li> <li>Content Security Accelerator hardware for faster performance of IPS and ExpressAV</li> <li>Full UTM<sup>1</sup>; antivirus<sup>1</sup>, antispam<sup>1</sup>, Web filtering<sup>1</sup>, intrusion prevention system<sup>1</sup> (with high memory version)</li> <li>Unified Access Control and content filtering</li> <li>512 MB RAM default, optional factory 1 GB DRAM, 1 GB flash default</li> </ul>
SRX650 Services Gateway	<ul style="list-style-type: none"> <li>4 fixed ports 10/100/1000 Ethernet LAN ports, 8 GPIM slots or multiple GPIM and XPIM combinations</li> <li>Support for T1, E1, DS3/E3, Ethernet ports; supports up to 48 ports switching with optional PoE including 802.3at, PoE+, backwards compatible with 802.3af</li> <li>Content Security Accelerator hardware for faster performance of IPS and ExpressAV</li> <li>Full UTM<sup>1</sup>; antivirus<sup>1</sup>, antispam<sup>1</sup>, Web filtering<sup>1</sup>, and intrusion prevention system<sup>1</sup></li> <li>Unified Access Control and content filtering</li> <li>Modular Services and Routing Engine; future internal failover and hot-swap</li> <li>2 GB DRAM default, 2 GB compact flash default, external compact flash slot for additional storage</li> <li>Optional redundant AC power; standard AC power supply that is PoE-ready; PoE power up to 250 watts single power supply or 500 watts dual power supply</li> </ul>

## Network Deployments

The SRX Series Services Gateways for the branch are deployed at remote and branch locations in the network to provide all-in-one secure WAN connectivity, IP telephony, and connection to local PCs and servers via integrated Ethernet switching.

## Features and Benefits

### Secure Routing

Should you use a router and a firewall to secure your network? By building the branch SRX Series with best-in-class routing, switching and firewall capabilities in one product, enterprises don't have to make that choice. Why forward traffic if it's not legitimate?

SRX Series for the branch checks the traffic to see if it is legitimate and permitted, and only forwards it on when it is. This reduces the load on the network, allocates bandwidth for all other mission-critical applications, and secures the network from malicious users.

The main purpose of a secure router is to provide firewall protection and apply policies. The firewall (zone) functionality inspects traffic flows and state to ensure that originating and

returning information in a session is expected and permitted for a particular zone. The security policy determines if the session can originate in one zone and traverse to another zone. This architectural choice receives packets from a wide variety of clients and servers and keeps track of every session, of every application, and of every user. It allows the enterprise to make sure that only legitimate traffic is on its network and that traffic is flowing in the expected direction.

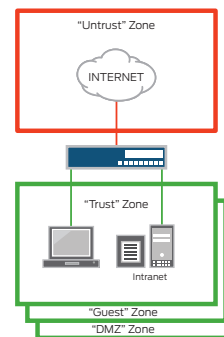


Figure 1: Firewalls, zones, and policies

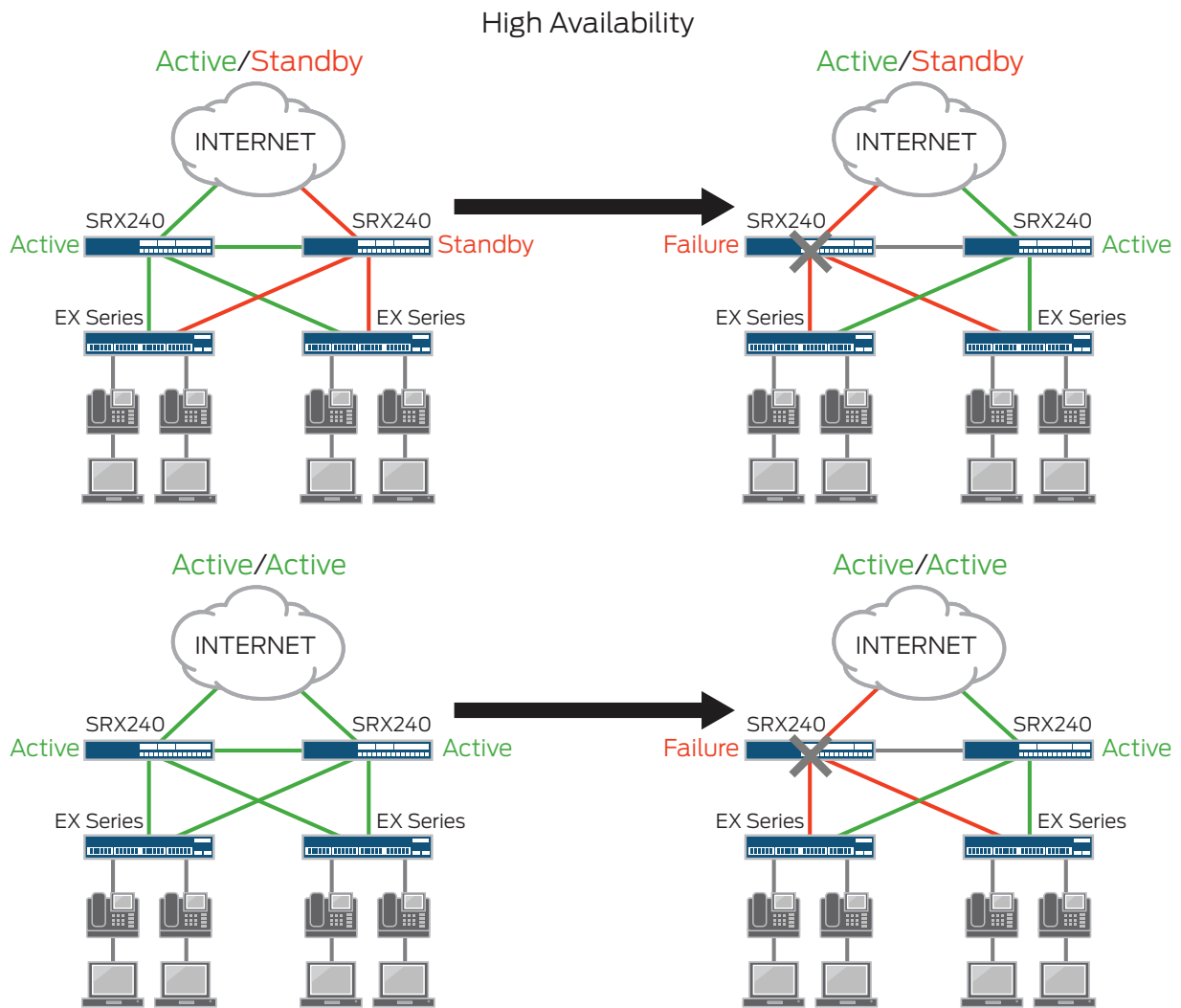


Figure 2: High availability

To ease the configuration of a firewall, SRX Series for the branch uses two features—“zones” and “policies.” While these can be user-defined, the default shipping configuration contains, at a minimum, a “trust” and “untrust” zone. The trust zone is used for configuration and attaching the internal LAN to the branch SRX Series. The untrust zone is commonly used for the WAN or untrusted Internet interface. To simplify installation and make configuration easier, a default policy is in place that allows traffic originating from the trust zone to flow to the untrust zone. This policy blocks all traffic originating from the untrust zone to the trust zone. A traditional router forwards all traffic without regard to a firewall (session awareness) or policy (origination and destination of a session).

By using the Web interface or CLI, enterprises can create a series of security policies that will control the traffic from within and in between zones by defining policies. At the broadest level, all types of traffic can be allowed from any source in security zones to any destination in all other zones without any scheduling restrictions. At the narrowest level, policies can be created that allow only one kind of traffic between a specified host in one zone and another specified host in another zone during a scheduled time period.

### High Availability

Junos OS Services Redundancy Protocol (JSRP) is a core feature of the SRX Series for the branch. JSRP enables a pair of SRX Series systems to be easily integrated into a high availability network architecture, with redundant physical connections between the systems and the adjacent network switches. With link redundancy, Juniper Networks can address many common causes of system failures, such as a physical port going bad or a cable getting disconnected, to ensure that a connection is available without having to fail over the entire system. This is consistent with a typical active/standby nature of routing resiliency protocols.

When SRX Series Services Gateways for the branch are configured as an active/active HA pair, traffic and configuration is mirrored automatically to provide active firewall and VPN session maintenance in case of a failure. The branch SRX Series synchronizes both configuration and runtime information. As a result, during failover, synchronization of the following information is shared: connection/session state and flow information, IPSec security associations, Network Address Translation (NAT) traffic, address book information, configuration changes, and more. In

contrast to the typical router active/standby resiliency protocols such as Virtual Router Redundancy Protocol (VRRP), all dynamic flow and session information is lost and must be reestablished in the event of a failover. Some or all network sessions will have to restart depending on the convergence time of the links or nodes. By maintaining state, not only is the session preserved, but security is kept intact. In an unstable network, this active/active configuration also mitigates link flapping affecting session performance.

### Session-Based Forwarding Without the Performance Hit

In order to optimize the throughput and latency of the combined router and firewall, Junos OS implements session-based forwarding, an innovation that combines the session state information of a traditional firewall and the next-hop forwarding of a classic router into a single operation. With Junos OS, a session that is permitted by the forwarding policy is added to the forwarding table along with a pointer to the next-hop route. Established sessions have a single table lookup to verify that the session has been permitted and to find the next hop. This efficient algorithm improves throughput and lowers latency for session traffic when compared with a classic router that performs multiple table lookups to verify session information and then to find a next-hop route.

Figure 3 shows the session-based forwarding algorithm. When a new session is established, the session-based architecture within Junos OS verifies that the session is allowed by the forwarding policies. If the session is allowed, Junos OS will look up the next-hop route in the routing table. It then inserts the session and the next-hop route into the session and forwarding table and forwards the packet. Subsequent packets for the established session require a single table lookup in the session and forwarding table, and are forwarded to the egress interface.

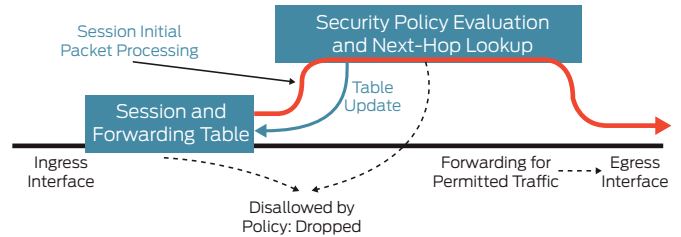


Figure 3: Session-based forwarding algorithm

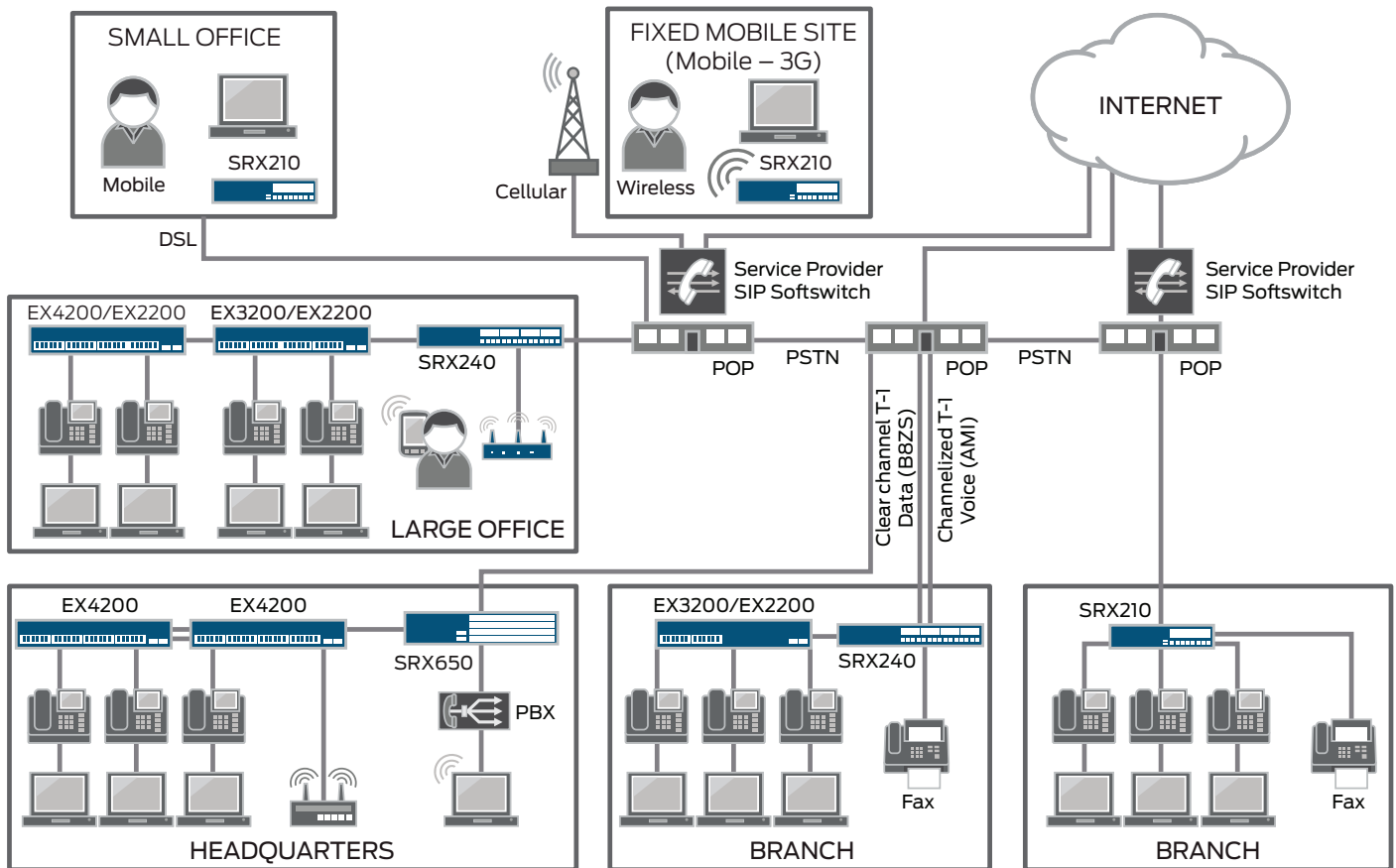


Figure 4: The distributed enterprise



## Specifications

### Protocols

- IPv4, IPv6, ISO Connectionless Network Service (CLNS)

### Routing and Multicast

- Static routes
- RIPv2 +v1
- OSPF/OSPFv3
- BGP
- BGP Router Reflector<sup>3</sup>
- IS-IS
- Multicast (Internet Group Management Protocol (IGMPv1/2/3), PIM-SM/DM, Session Description Protocol (SDP), Distance Vector Multicast Routing Protocol (DVMRP), source-specific), MSDP
- MPLS (RSVP, LDP)<sup>5</sup>

### IP Address Management

- Static
- Dynamic Host Configuration Protocol (DHCP) (client and server)
- DHCP relay

### Encapsulations

- Ethernet (MAC and VLAN tagged)
- Point-to-Point Protocol (PPP) (synchronous)
  - Multilink Point-to-Point Protocol (MLPPP)
- Frame Relay
  - Multilink Frame Relay (MLFR) (FRF.15, FRF.16), FRF.12, LFI
- High-Level Data Link Control (HDLC)
- Serial (RS-232, RS-449, X.21, V.35, EIA-530)
- 802.1q VLAN support
- Point-to-Point Protocol over Ethernet (PPPoE)

### Switching

- 802.1D, RSTP, MSTP, 802.3ad

### Traffic Management

- 802.1p, DSCP, EXP
- Marking, policing, and shaping
- Class-based queuing with prioritization
- Weighted random early detection (WRED)
- Queuing based on VLAN, data-link connection identifier (DLCI), interface, bundles, or multi-field (MF) filters

### Security

- Firewall, zones, screens, policies
- Stateful firewall, stateless filters
- Screens denial of service (DoS) and provides distributed denial of service (DDoS) protection (anomaly-based)

- Prevent replay attack; Anti-Replay
- Unified Access Control
- UTM<sup>1</sup> (SRX220, SRX650 and high memory versions of SRX240, SRX210, and SRX100 only)
  - Antivirus<sup>1</sup>, antispam<sup>1</sup>, Web filtering<sup>1</sup>, IPS<sup>1</sup>
  - Content Security Accelerator in SRX210 high memory, SRX220 high memory, SRX240 high memory, and SRX650<sup>1</sup>
  - ExpressAV option in SRX210 high memory, SRX220 high memory, SRX240 high memory, and SRX650<sup>1</sup>
  - Content filtering

### VPN

- Tunnels (GRE, IP-IP, IPsec)
- IPsec, Data Encryption Standard (DES) (56-bit), triple Data Encryption Standard (3DES) (168-bit), Advanced Encryption Standard (AES) (128-bit+) encryption
- Message Digest 5 (MD5), SHA-1, SHA-128, SHA-256 authentication
- Access Manager: Dynamic VPN Client. Browser-based remote access feature requiring a license.

### Multimedia Transport

- Compressed Real-Time Transport Protocol (CRTP)

### High Availability

- VRRP
- JSRP
- Stateful failover and dual box clustering
- SRX650:
  - Redundant power (optional)
  - GPIM hot swap on SRX650
  - Future internal failover and SRE hot swap (OIR)
- Backup link via 3G wireless or other WAN

### IPv6<sup>5</sup>

- OSPFv3
- RIPv6
- IPv6 Multicast Listener Discovery (MLD)
- BGP
- ISIS

### Wireless

- CX111 Cellular 3G/4G/LTE Broadband Data Bridge supported on all branch SRX Series devices
- 3G ExpressCards supported on SRX210 with built-in ExpressCard slot
- AX411 Wireless LAN (Wi-Fi 802.11 a/b/g/n) Access Point supported on all<sup>6</sup> branch SRX Series devices
- WLA Series Wireless LAN Access Points and WLC Series Wireless LAN Controllers are supported on branch SRX Series devices

## Specifications (continued)

### SLA, Measurement, and Monitoring

- Real-time performance monitoring (RPM)
- Sessions, packets, and bandwidth usage
- Juniper J-Flow monitoring and accounting services

### Logging

- Syslog
- Traceroute
- Extensive control- and data-plane structured and unstructured syslog

### Administration

- Juniper Networks Network and Security Manager support (NSM)
- Juniper Networks STRM Series Security Threat Response Managers support
- Juniper Networks Advanced Insight Solutions support
- External administrator database (RADIUS, LDAP, SecureID)
- Auto-configuration
- Configuration rollback
- Rescue configuration with button
- Commit confirm for changes
- Auto-record for diagnostics
- Junos OS upgrade with button
- Software upgrades
- Juniper J-Web, USB, HTTP, FTP, SSH

### Certifications

- Common Criteria (CC) EAL3
- FIPS-140 Level 2
- Supported hardware versions of the FIPS 140-2
- Gateways: SRX100B, SRX210B, SRX240B and SRX650-BASE-SRE6-645AP with JNPR-FIPS-TAMPER-LBLS
  - Roles, Services, and Authentication: Level 3
  - EMI/EMC: Level 3
  - Design Assurance: Level 3
  - FIPS-approved algorithms: Triple-DES; AES; DSA; SHS;
  - RNG; RSA; HMAC
- NEBS Compliance for SRX240, SRX650
- Department of Defense (DoD) Certification for SRX Series Services Gateways, including testing and certification by the Department of Defense Joint Interoperability Test Command (JITC) for interoperability with DoD networks and addition of the SRX Series Services Gateways to the Unified Capabilities Approved Product List (UC APL)
- DOCSIS3 mini-PIM certification by CableLabs

## Product Comparison

	SRX100	SRX210*	SRX220	SRX240	SRX650
<b>Maximum Performance and Capacity</b>					
Junos OS version tested	Junos OS 10.4	Junos OS 11.1	Junos OS 10.4	Junos OS 10.4	Junos OS 10.4
Firewall performance (large packets)	700 Mbps	850 Mbps	950 Mbps	1.5 Gbps	7 Gbps
Firewall performance (IMIX)	200 Mbps	250 Mbps	300 Mbps	500 Mbps	2.5 Gbps
Firewall + routing PPS (64 Byte)	70 Kpps	95 Kpps	125 Kpps	200 Kpps	850 Kpps
IPsec VPN throughput (large packets)	65 Mbps	85 Mbps	100 Mbps	300 Mbps	1.5 Gbps
IPsec VPN tunnels	128	256	512	1,000	3,000
IPS (intrusion prevention system)	60 Mbps	85 Mbps	100 Mbps	230 Mbps	1 Gbps
Antivirus	20 Mbps (Full AV)	25 Mbps	30 Mbps	85 Mbps	350 Mbps (ExpressAV)
Connections per second	1,800	2,200	2,800	8,500	35,000
Maximum concurrent sessions	16 K / 32 K <sup>7</sup>	32 K / 64 K <sup>7</sup>	96 K	64 K / 128 K <sup>7</sup>	512 K <sup>8</sup>
DRAM options	512 MB <sup>2</sup> / 1 GB DRAM	512 MB / 1 GB DRAM	1 GB DRAM	512 MB / 1 GB DRAM	2 GB DRAM
Maximum security policies	384	512	2,048	4,096	8,192
Maximum users supported	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
<b>Network Connectivity</b>					
Fixed I/O	8 x 10/100	2 x 10/100/1000BASE-T + 6 x 10/100	8 x 10/100/1000BASE-T	16 x 10/100/1000BASE-T	4 x 10/100/1000BASE-T
I/O slots	N/A	1 x SRX Series Mini-PIM	2 x SRX Series Mini-PIM	4 x SRX Series Mini-PIM	8 x GPIM or multiple GPIM and XPIM combinations
Services and Routing Engine slots	No	No	No	No	2 <sup>9</sup>
ExpressCard slot (3G WAN)	No	Yes	No	No	No
WAN/LAN interface options	N/A	See ordering information	See ordering information	See ordering information	See ordering information
Maximum number of PoE ports (PoE optional on some SRX Series models)	N/A	Up to 4 ports of 802.3af with maximum 50 W	Up to 8 ports of 802.3af/at with maximum 120 W	Up to 16 ports of 802.3af/at with maximum 150 W	Up to 48 ports of 802.3af/at with maximum 247 W
USB	1	2	2	2	2 per SRE

## Product Comparison (continued)

	SRX100	SRX210*	SRX220	SRX240	SRX650
<b>Routing</b>					
BGP instances	5	10	16	20	64
BGP peers	8	16	16	32	256
BGP routes	4 K/8 K	8 K/16 K	32 K	32 K/64 K	800 K
OSPF instances	4	10	16	20	64
OSPF routes	4 K/8 K	8 K/16 K	32 K	32 K/64 K	800 K
RIP v1 / v2 instances	4	10	16	20	64
RIP v2 routes	4 K/8 K	8 K/16 K	32 K	32 K/64 K	800 K
Static routes	4 K/8 K	8 K/16 K	32 K	32 K/64 K	800 K
Source-based routing	Yes	Yes	Yes	Yes	Yes
Policy-based routing	Yes	Yes	Yes	Yes	Yes
Equal-cost multipath (ECMP)	Yes	Yes	Yes	Yes	Yes
Reverse path forwarding (RPF)	Yes	Yes	Yes	Yes	Yes
<b>MPLS<sup>5</sup></b>					
Layer 2 VPN (VPLS)	Yes	Yes	Yes	Yes	Yes
Layer 3 VPN	Yes	Yes	Yes	Yes	Yes
LDP	Yes	Yes	Yes	Yes	Yes
RSVP	Yes	Yes	Yes	Yes	Yes
Circuit Cross-connect (CCC)	Yes	Yes	Yes	Yes	Yes
Translational Cross-connect (TCC)	Yes	Yes	Yes	Yes	Yes
<b>Multicast</b>					
IGMP (v1, v2, v3)	Yes	Yes	Yes	Yes	Yes
Protocol independent multicast (PIM) sparse mode (SM)	Yes	Yes	Yes	Yes	Yes
PIM dense mode (DM)	Yes	Yes	Yes	Yes	Yes
PIM source-specific multicast (SSM)	Yes	Yes	Yes	Yes	Yes
Multicast inside IPsec tunnel	Yes	Yes	Yes	Yes	Yes
<b>IPsec VPN</b>					
Concurrent VPN tunnels	128	256	512	1,000	3,000
Tunnel interfaces	10	64	64	128	512
DES (56-bit), 3DES (168-bit) and AES (256-bit)	Yes	Yes	Yes	Yes	Yes
MD-5 and SHA-1 authentication	Yes	Yes	Yes	Yes	Yes
Manual key, Internet Key Exchange (IKE), public key infrastructure (PKI) (X.509)	Yes	Yes	Yes	Yes	Yes
Perfect forward secrecy (DH Groups)	1, 2, 5	1, 2, 5	1, 2, 5	1, 2, 5	1, 2, 5
Prevent replay attack	Yes	Yes	Yes	Yes	Yes
Dynamic remote access VPN	Yes	Yes	Yes	Yes	Yes
IPsec NAT traversal	Yes	Yes	Yes	Yes	Yes
Redundant VPN gateways	Yes	Yes	Yes	Yes	Yes
<b>User Authentication and Access Control</b>					
Third-party user authentication	RADIUS, RSA SecureID, LDAP	RADIUS, RSA SecureID, LDAP	RADIUS, RSA SecureID, LDAP	RADIUS, RSA SecureID, LDAP	RADIUS, RSA SecureID, LDAP
RADIUS accounting	Yes	Yes	Yes	Yes	Yes
XAUTH VPN, Web-based, 802.X authentication	Yes	Yes	Yes	Yes	Yes
PKI certificate requests (PKCS 7 and PKCS 10)	Yes	Yes	Yes	Yes	Yes
Certificate Authorities supported	VeriSign, Entrust, Microsoft, RSA Keon, iPlanet, (Netscape), Baltimore, DoD PKI	VeriSign, Entrust, Microsoft, RSA Keon, iPlanet, (Netscape), Baltimore, DoD PKI	VeriSign, Entrust, Microsoft, RSA Keon, iPlanet, (Netscape), Baltimore, DoD PKI	VeriSign, Entrust, Microsoft, RSA Keon, iPlanet, (Netscape), Baltimore, DoD PKI	VeriSign, Entrust, Microsoft, RSA Keon, iPlanet, (Netscape), Baltimore, DoD PKI

## Product Comparison (continued)

	SRX100	SRX210*	SRX220	SRX240	SRX650
<b>Virtualization</b>					
Maximum number of security zones	10	12	24	32	128
Maximum number of virtual routers	3	10	15	20	60
Maximum number of VLANs	16	64	128	512	4,096
<b>Encapsulations</b>					
PPP/MLPPP	N/A	Yes	Yes	Yes	Yes
MLPPP maximum physical interfaces	N/A	1	2	4	12
Frame Relay	N/A	Yes	Yes	Yes	Yes
MLFR (FRF.15, FRF.16)	N/A	Yes	Yes	Yes	Yes
MLFR maximum physical interfaces	N/A	1	2	4	12
HDLC	N/A	Yes	Yes	Yes	Yes
<b>Address Translation</b>					
Source NAT with Port Address Translation (PAT)	Yes	Yes	Yes	Yes	Yes
Static NAT	Yes	Yes	Yes	Yes	Yes
Destination NAT with PAT	Yes	Yes	Yes	Yes	Yes
<b>IP Address Assignment</b>					
Static	Yes	Yes	Yes	Yes	Yes
DHCP, PPPoE client	Yes	Yes	Yes	Yes	Yes
Internal DHCP server	Yes	Yes	Yes	Yes	Yes
DHCP relay	Yes	Yes	Yes	Yes	Yes
<b>L2 Switching</b>					
VLAN 802.1Q	Yes	Yes	Yes	Yes	Yes
Link Aggregation 802.3ad/LACP	Yes	Yes	Yes	Yes	Yes
Jumbo Frame (9216 Byte)	No	Yes	Yes	Yes	Yes
Spanning Tree Protocol (STP) 802.1D, RSTP 802.1w, MSTP 802.1s	Yes	Yes	Yes	Yes	Yes
Authentication 802.1x port-based and multiple supplicant	Yes	Yes	Yes	Yes	Yes
<b>Traffic Management Quality of Service (QoS)</b>					
Guaranteed bandwidth	Yes	Yes	Yes	Yes	Yes
Maximum bandwidth	Yes	Yes	Yes	Yes	Yes
Ingress traffic policing	Yes	Yes	Yes	Yes	Yes
Priority-bandwidth utilization	Yes	Yes	Yes	Yes	Yes
DiffServ marking	Yes	Yes	Yes	Yes	Yes
<b>High Availability</b>					
Active/active—L3 mode	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
Active/passive—L3 mode	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
Configuration synchronization	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
VRRP	Yes	Yes	Yes	Yes	Yes
Session synchronization for firewall and VPN	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
Session failover for routing change	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
Device failure detection	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
Link failure detection	Yes	Yes	Yes	Yes <sup>9</sup>	Yes <sup>3</sup>
<b>Firewall</b>					
Network attack detection	Yes	Yes	Yes	Yes	Yes
DoS and DDos protection	Yes	Yes	Yes	Yes	Yes
TCP reassembly for fragmented packet protection	Yes	Yes	Yes	Yes	Yes
Brute force attack mitigation	Yes	Yes	Yes	Yes	Yes
SYN cookie protection	Yes	Yes	Yes	Yes	Yes
Zone-based IP spoofing	Yes	Yes	Yes	Yes	Yes
Malformed packet protection	Yes	Yes	Yes	Yes	Yes



## Product Comparison (continued)

	SRX100	SRX210*	SRX220	SRX240	SRX650
<b>Unified Threat Management<sup>1</sup></b>					
Intrusion Prevention System (IPS)	Yes <sup>10</sup>	Yes	Yes	Yes	Yes
Protocol anomaly detection	Yes <sup>10</sup>	Yes	Yes	Yes	Yes
Stateful protocol signatures	Yes <sup>10</sup>	Yes	Yes	Yes	Yes
Intrusion prevention system (IPS) attack pattern obfuscation	Yes <sup>10</sup>	Yes	Yes	Yes	Yes
Customer signatures creation	Yes <sup>10</sup>	Yes	Yes	Yes	Yes
Frequency of updates	Daily and emergency <sup>9</sup>	Daily and emergency	Daily and emergency	Daily and emergency	Daily and emergency
<b>Antivirus</b>					
Express AV (packet-based AV)	No	Yes	Yes	Yes	Yes
File-based antivirus	Yes	Yes	Yes	Yes	Yes
Signature database	Yes	Yes	Yes	Yes	Yes
Protocols scanned	POP3, HTTP, SMTP, IMAP, FTP	POP3, HTTP, SMTP, IMAP, FTP	POP3, HTTP, SMTP, IMAP, FTP	POP3, HTTP, SMTP, IMAP, FTP	POP3, HTTP, SMTP, IMAP, FTP
Antispyware	Yes	Yes	Yes	Yes	Yes
Anti-adware	Yes	Yes	Yes	Yes	Yes
Antikeylogger	Yes	Yes	Yes	Yes	Yes
Antispam	Yes	Yes	Yes	Yes	Yes
Integrated Web filtering	Yes	Yes	Yes	Yes	Yes
Redirect Web filtering	Yes	Yes	Yes	Yes	Yes
Content filtering	Yes	Yes	Yes	Yes	Yes
Based on MIME type, file extension, and protocol commands	Yes	Yes	Yes	Yes	Yes
<b>System Management</b>					
Web UI	Yes	Yes	Yes	Yes	Yes
Command-line interface	Yes	Yes	Yes	Yes	Yes
Network and Security Manager (NSM)	Yes	Yes	Yes	Yes	Yes
STRM Series	Yes	Yes	Yes	Yes	Yes
<b>Wireless</b>					
CX111 3G Bridge support	Yes	Yes	Yes	Yes	Yes
Internal 3G ExpressCard slot support	No	Yes	Yes	No	No
Max WLAN access points supported with AX411	2 <sup>6</sup>	4	4	4	4
WLA Series access points and WLC Series controllers supported	N/A	> 4	> 4	> 4	> 4
<b>Flash and Memory</b>					
Memory minimum and maximum (DRAM)	512 MB (Accessible), 1 GB <sup>2</sup>	512 MB, 1 GB	1 GB	512 MB, 1 GB	2 GB
Memory slots	Fixed memory	Fixed memory	Fixed memory	Fixed memory	4 DIMM
Flash memory	1 GB	1 GB	1 GB	1 GB	2 GB CF internal on SRE, External slot empty, up to 2 GB CF supported
USB port for external storage	Yes	Yes	Yes	Yes	Yes
<b>Dimensions and Power</b>					
Dimensions (W x H x D)	8.5 x 1.4 x 5.8 in (21.6 x 3.6 x 14.7 cm)	11.02 x 1.73 x 7.12 in (28.0 x 4.4 x 18.1 cm)	11.02 x 1.73 x 7.04 in. (28 x 4.4 x 17.9 cm)	17.5 x 1.75 x 15.1 in (44.4 x 4.4 x 38.5 cm)	17.5 x 3.5 x 18.2 in (44.4 x 8.8 x 46.2 cm)
Weight (device and power supply)	2.5 lb (1.1 kg)	3.3 lb (1.5 kg) non-PoE / 4.4 lb (2 kg) PoE No interface modules	3.43 lb (1.56 kg) non-PoE No interface modules	11.2 lb (5.1 kg) non-PoE / 12.3 lb (5.6 kg) PoE No interface modules	24.9 lb (11.3 kg) No interface modules 1 power supply
Rack mountable	Yes, 1 RU	Yes, 1 RU	Yes, 1 RU	Yes, 1 RU	Yes, 2 RU
Power supply (AC)	100–240 VAC, 30 W	100–240 VAC, 60 W Non-PoE/ 150 W PoE	100–240 VAC, 60 W Non-PoE / 200 W PoE	100–240 VAC, 150 W Non-PoE / 350 W PoE	100–240 VAC, single 645 W or dual 645 W
Maximum PoE power	N/A	50 W	120 W	150 W	247 W redundant, or 494 W non- redundant

## Product Comparison (continued)

	SRX100	SRX210*	SRX220	SRX240	SRX650
<b>Dimensions and Power</b>					
Average power consumption	10 W	27 W (LM), 28 W (HM), 84 W (PoE)	28 W (LM)	61 W (LM), 65 W (HM), 179 W (PoE)	122 W
Input frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Maximum current consumption	0.25 A @ 100 VAC	0.41 A @ 100 VAC (LM), 0.44 A @ 100 VAC (HM), 1.13 A @ 100 VAC (PoE)	0.44 A @ 100 VAC (HM)	1.0 A @ 100 VAC (LM), 1.1 A @ 100 VAC (HM), 3.0 A @ 100 VAC (PoE)	5.3 A @ 100 VAC with single PSU with PoE, 8.3 A @ 100 VAC with dual PSU with PoE
Maximum inrush current	60 A	80 A for LM/HM, 60 A for PoE	80 A for HM	40 A for LM/HM, 45 A for PoE	45 A for ½ cycle
Average heat dissipation	35 BTU/hr	92 BTU/hr (SRX210B), 95 BTU/hr (SRX210H), 116 BTU/hr (SRX210H-PoE)	126 BTU/hour (SRX220H)	208 BTU/hr (SRX240B), 222 BTU/hr (SRX240H), 249 BTU/hr (SRX240H-PoE)	319 BTU/hr
Maximum heat dissipation	80 BTU/hr	120 BTU/hr (SRX210B), 126 BTU/hr (SRX210H), 157 BTU/hr (SRX210H-PoE)	126 BTU/hour (SRX220H)	344 BTU/hr (SRX210B), 369 BTU/hr (SRX210H), 413 BTU/hr (SRX210H-PoE)	699 BTU/hr
Redundant power supply (hot swappable)	No	No	No	No	Yes (up to maximum capacity of single PSU)
Acoustic noise level (Per ISO 7779 Standard)	0 dB (fanless)	29.1 dB	51.1 dB	54.1 dB	60.9 dB

## Environment

Operational temperature	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Nonoperational temperature	4° to 158° F, (-20° to 70° C)	4° to 158° F, (-20° to 70° C)	4° to 158° F, (-20° to 70° C)	4° to 158° F, (-20° to 70° C)	4° to 158° F, (-20° to 70° C)
Humidity (operating)	10% to 90% noncondensing	10% to 90% noncondensing	10% to 90% noncondensing	10% to 90% noncondensing	10% to 90% noncondensing
Humidity (nonoperating)	5% to 95% noncondensing	5% to 95% noncondensing	5% to 95% noncondensing	5% to 95% noncondensing	5% to 95% noncondensing
Mean time between failures (Telcordia model)	24.8 years (SRX100B) 24.8 years (SRX100H)	15.2 years (SRX210B) 14.3 years (SRX210H) 10.4 years (SRX210H-PoE)	14.3 years (SRX220H) 10.4 years (SRX220H-PoE)	15.2 years (SRX240B) 14.3 years (SRX240H) 10.4 years (SRX240H-PoE)	9.6 years with redundant power

## Certifications and Network Homologation

<b>USA</b>					
Safety certifications	UL 60950-1	UL 60950-1	UL 60950-1	UL 60950-1	UL 60950-1
EMC certifications	FCC Class B	FCC Class B <sup>10</sup>	FCC Class A	FCC Class A	FCC Class A
Network homologation	TIA-968	TIA-968	TIA-968	TIA-968	TIA-966
<b>Canada</b>					
Safety certifications	CSA 60950-1	CSA 60950-1	CSA 60950-1	CSA 60950-1	CSA 60950-1
EMC certifications	ICES class B	ICES class B <sup>10</sup>	ICES Class A	ICES class A	ICES class A
Network homologation	CS-03	CS-03	CS-03	CS-03	CS-03
<b>Australia</b>					
Safety certifications	AS / NZS 60950-1	AS / NZS 60950-1	AS / NZS 60950-1	AS / NZS 60950-1	AS / NZS 60950-1
EMC certifications	AS / NZS CISPR22 Class B	AS / NZS CISPR22 Class B <sup>10</sup>	AS / NZS CISPR22 Class B <sup>9</sup>	AS / NZS CISPR22 Class A	AS / NZS CISPR22 Class A
Network homologation	AS / ACIF S 002, S 016, S 043.1, S043.2	AS / ACIF S 002, S 016, S 043.1, S043.2	AS / ACIF S 002, S 016, S 043.1, S043.2	AS / ACIF S 002, S 016, S 043.1, S043.2	AS / ACIF S 016
<b>New Zealand</b>					
Safety certifications	AS / NZS 60950-1	AS / NZS 60950-1	AS / NZS 60950-1	AS / NZS 60950-1	AS / NZS 60950-1
EMC certifications	AS / NZS CISPR22 Class B	AS / NZS CISPR22 Class B <sup>10</sup>	AS / NZS CISPR22 Class B <sup>9</sup>	AS / NZS CISPR22 Class A	AS / NZS CISPR22 Class A
Network homologation	PTC 217, PTC 273	PTC 217, PTC 273	PTC 217, PTC 273	PTC 217, PTC 273	PTC 217

## Product Comparison (continued)

	SRX100	SRX210*	SRX220	SRX240	SRX650
<b>Certifications and Network Homologation</b>					
Japan					
Safety certifications	CB Scheme	CB Scheme	CB Scheme	CB Scheme	CB Scheme
EMC certifications	VCCI Class B	VCCI Class B <sup>10</sup>	VCCI Class A	VCCI Class A	VCCI Class A
Network homologation	Certificate for Technical Conditions	Certificate for Technical Conditions	Certificate for Technical Conditions	Certificate for Technical Conditions	Certificate for Technical Conditions
European Union					
Safety certifications	EN 60950-1	EN 60950-1	EN 60950-1	EN 60950-1	EN 60950-1
EMC certifications	EN 55022 Class B, EN 300 386	EN 55022 Class B <sup>10</sup> , EN 300 386	EN 55022 Class A, EN 300 386	EN 55022 Class A, EN 300 386	EN 55022 Class A, EN 300 386
Network homologation	CTR 12/13, CTR 21, DoC	CTR 12/13, CTR 21, DoC	CTR 12/13, CTR 21, DoC	CTR 12/13, CTR 21, DoC	CTR 12/13, DoC

\*There are several models available for the SRX210. Please contact your Juniper or partner account representative for more information.

1. Unified Threat Management—antivirus, antispam, Web filtering, and IPS require a subscription license and the high memory system option to use the feature. UTM is not supported on the low memory version. Please see the ordering section for options. Content Filtering and UAC are part of the base software with no additional license.
2. SRX100B installed with 1 GB DRAM, with 512 MB accessible. Optional upgrade to 1 GB DRAM is available with purchase of memory software license key.
3. BGP Route Reflector supported on SRX650. See ordering section for more information.
4. 3G USB modem support planned for availability Q4 2011.
5. Supported in packet mode with services.
6. SRX100 supports AX411 in 2H 2011.
7. When UTM is enabled capacities supported are low memory specifications, on high memory system options.
8. When UTM is enabled concurrent sessions supported is 50% Of value shown.
9. SRX650 supports a single Services and Routing Engine (SRE).
10. SRX210H-POE is Class A.

## Juniper Networks Services 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).

## Ordering Information

MODEL NUMBER	DESCRIPTION
<b>SRX650 Base System</b>	
SRX650-BASE-SRE6-645AP	SRX650 Services Gateway with 1 Services Routing Engine (SRE), 4 x 10/100/1000BASE-T ports, 2 GB DRAM, 2 GB CF, fan tray, 645 W AC PoE power supply unit for SRX650. Provides 397 W system power @ 12 V and 247 W PoE power @ 50 VDC. Works with 90-250 VAC input. Includes power cord and rack mount kit.
<b>SRX650 Interface Modules</b>	
SRX-GP-16GE	16-port 10/100/1000BASE-T XPIM
SRX-GP-16GE-POE	16-port 10/100/1000BASE-T PoE XPIM
SRX-GP-2XE-SFPP-TX	2-port 10GbE SFP+/10GbE BASE-T Copper XPIM
SRX-GP-24GE	24-port 10/100/1000BASE-T XPIM, includes 4 SFP slots
SRX-GP-24GE-POE	24-port 10/100/1000BASE-T PoE XPIM, includes 4 SFP slots
SRX-GP-DUAL-T1-E1	Dual T1/E1 GPIM
SRX-GP-QUAD-T1-E1	QUAD T1/E1 GPIM
SRX-GP-1DS3-E3	1-port clear channel DS3/E3 GPIM, includes 1 GPIM slot

MODEL NUMBER	DESCRIPTION
<b>SRX650 Power Supplies and Accessories</b>	
SRX600-PWR-645AC-POE	Spare 645 W AC PoE power supply unit for SRX650 systems—one is included in SRX650 Base System (SRX650-BASE-SRE6-645AP)
SRX600-SRE6H	Spare SRE6-H for SRX650—one is included in SRX650 Base System (SRX650-BASE-SRE6-645AP)
SRX650-CHAS	SRX650 chassis including fan tray—no system processor (SRE) and no power supply unit
SRX650-FAN-01	Spare SRX650 fan tray, one is included in SRX650 chassis spare (SRX650-CHAS), and included in SRX650 Base System (SRX650-BASE-SRE6-645AP)
SRX650-FILT-01	Not included in SRX650 Chassis Spare (SRX650-CHAS), and not included in SRX650 Base System (SRX650-BASE-SRE6-645AP)—optional, as this is not required for normal operations, but recommended for dusty environments

## Ordering Information (continued)

MODEL NUMBER	DESCRIPTION
<b>SRX650 Additional Software Feature Licenses</b>	
SRX650-K-AV	One year subscription for Juniper-Kaspersky antivirus updates on SRX650
SRX650-S-AV	One year subscription for Juniper-Sophos antivirus updates on SRX650
SRX650-IDP	One year subscription for IDP updates on SRX650
SRX650-S2-AS	One year subscription for Juniper-Sophos antispam updates on SRX650
SRX650-W-WF	One year subscription for Juniper-Websense Web filtering updates on SRX650
SRX650-SMB2-CS	One year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX650
SRX650-S-SMB-CS	Three year subscription for Juniper-Kaspersky antivirus updates on SRX650
SRX650-K-AV-3	Three year subscription for Juniper-Sophos antivirus updates on SRX650
SRX650-S-AV-3	Three year subscription for IDP updates on SRX650
SRX650-IDP-3	Three year subscription for Juniper-Sophos antispam updates on SRX650
SRX650-S2-AS-3	Three year subscription for Juniper-Websense Web filtering updates on SRX650
SRX650-W-WF-3	Three year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX650
SRX650-SMB2-CS-3	Three year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX650
SRX650-S-SMB-CS-3	Advanced BGP on SRX650 (Route Reflector)
SRX-BGP-ADV-LTU	Five year subscription for Juniper-Kaspersky antivirus updates on SRX650
SRX650-K-AV-5	Five year subscription for Juniper-Sophos antivirus updates on SRX650
SRX650-S-AV-5	Five year subscription for IDP updates on SRX650
SRX650-IDP-5	Five year subscription for Juniper-Sophos antispam updates on SRX650
SRX650-S2-AS-5	Five year subscription for Juniper-Websense Web filtering updates on SRX650
SRX650-W-WF-5	Five year subscription for Juniper-Websense Web filtering updates on SRX650
SRX650-SMB2-CS-5	Five year security subscription for enterprise—includes Kaspersky antivirus, Web Filtering, Sophos antispam, and IDP on SRX650
SRX650-S-SMB-CS-5	Five year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX650
SRX-RAC-5-LTU	Dynamic VPN Client: 5 simultaneous users for SRX100, SRX210, SRX220, SRX240, and SRX650 only
SRX-RAC-10-LTU	Dynamic VPN Client: 10 simultaneous users for SRX100, SRX210, SRX220, SRX240, and SRX650 only
SRX-RAC-25-LTU	Dynamic VPN Client: 25 simultaneous users for SRX100, SRX210, SRX220, SRX240, and SRX650 only

MODEL NUMBER	DESCRIPTION
SRX-RAC-50-LTU	Dynamic VPN Client: 50 simultaneous users for SRX240 and SRX650 only
SRX-RAC-100-LTU	Dynamic VPN Client: 100 simultaneous users for SRX650 only
SRX-RAC-150-LTU	Dynamic VPN Client: 150 simultaneous users for SRX650 only

### SRX240 Base System

SRX240B	SRX240 Services Gateway with 16 GbE ports, 4 Mini-PIM slots, and base memory (512 MB RAM, 1 GB Flash)
SRX240H	SRX240 Services Gateway with 16 GbE ports, 4 Mini-PIM slots, and high memory (1 GB RAM, 1 GB Flash)
SRX240H-POE	SRX240 Services Gateway with 16 GbE ports, 4 Mini-PIM slots, and high memory (1 GB RAM, 1 GB Flash), with 16 ports PoE (150 W)
SRX240-RMK	SRX240 Rack mount kit for 19 in rack (holds one unit)

### SRX240 Interface Modules

SRX-MP-ISERIAL	1-port Sync Serial Mini Physical Interface Module (Mini-PIM) for branch SRX Series
SRX-MP-1ADSL2-A	1-port ADSL2+ Mini-PIM supporting ADSL/ADSL2/ADSL2+ Annex A
SRX-MP-1ADSL2-B	1-port ADSL2+ Mini-PIM supporting ADSL/ADSL2/ADSL2+ Annex B
SRX-MP-1VDSL2-A	1-port VDSL2 Mini-PIM supporting Annex A, with fallback to ADSL2/ADSL2+
SRX-MP-8GSHDSL	8-wire (4-pair) G.SHDSL Mini-PIM
SRX-MP-1SFP-GE	1-port SFP Mini-PIM for branch SRX Series
SRX-MP-1T1E1	1-port T1 or E1 Mini-PIM for branch SRX Series
SRX-MP-1DOCSIS3	1-port DOCSIS 3.0 Cable Modem Mini-PIM for SRX Series; backwards compatible with DOCSIS 2.0 and 1.1

### SRX240 Additional Software Feature Licenses

SRX240-K-AV	One year subscription for Juniper-Kaspersky antivirus updates on SRX240
SRX240-S-AV	One year subscription for Juniper-Sophos antivirus updates on SRX240
SRX240-IDP	One year subscription for IDP updates on SRX240
SRX240-S2-AS	One year subscription for Juniper-Sophos antispam updates on SRX240
SRX240-W-WF	One year subscription for Juniper-Websense Web filtering updates on SRX240
SRX240-SMB2-CS	One year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX240
SRX240-S-SMB-CS	One year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX240
SRX240-K-AV-3	Three year subscription for Juniper-Kaspersky antivirus updates on SRX240
SRX240-S-AV-3	Three year subscription for Juniper-Sophos antivirus updates on SRX240
SRX240-IDP-3	Three year subscription for IDP updates on SRX240
SRX240-S2-AS-3	Three year subscription for Juniper-Sophos antispam updates on SRX240
SRX240-W-WF-3	Three year subscription for Juniper-Websense Web filtering updates on SRX240

## Ordering Information (continued)

MODEL NUMBER	DESCRIPTION
<b>SRX240 Additional Software Feature Licenses</b>	
SRX240-SMB2-CS-3	Three year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX240
SRX240-S-SMB-CS-3	Three year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX240
SRX240-K-AV-5	Five year subscription for Juniper-Kaspersky antivirus updates on SRX240
SRX240-S-AV-5	Five year subscription for Juniper-Sophos antivirus updates on SRX240
SRX240-IDP-5	Five year subscription for IDP updates on SRX240
SRX240-S2-AS-5	Five year subscription for Juniper-Sophos antispam updates on SRX240
SRX240-W-WF-5	Five year subscription for Juniper-Websense Web filtering updates on SRX240
SRX240-SMB2-CS-5	Five year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX240
SRX240-S-SMB-CS-5	Five year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX240
SRX-RAC-5-LTU	Dynamic VPN Client: 5 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-10-LTU	Dynamic VPN Client: 10 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-25-LTU	Dynamic VPN Client: 25 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-50-LTU	Dynamic VPN Client: 50 simultaneous users for SRX240 only

### SRX220 Base System

SRX220H	SRX220 Services Gateway with 8 GbE ports, 2 Mini-PIM slots, and high memory (1 GB RAM, 1 GB Flash)—external power supply and cord included
SRX220H-POE*	SRX220 Services Gateway with 8 GbE ports, 2 Mini-PIM slots, and high memory (1 GB RAM, 1 GB Flash), with 8 ports PoE (120 W)*
SRX220-RMK	SRX220 rack mount kit for 19 in rack (holds one unit)
SRX220-WALL-KIT	SRX220 wall mount kit (holds one unit)
SRX220-PWR-60W**	Spare SRX220 switching power supply, 60 W (non-POE)

\*SRX220H-POE available as of Q4 2010.

\*\*See price list for country-specific power cord model numbers.

### SRX220 Interface Modules

SRX-MP-ISERIAL	1-port Sync Serial Mini Physical Interface Module (Mini-PIM) for branch SRX Series
SRX-MP-1ADSL2-A	1-port ADSL2+ Mini-PIM supporting ADSL/ADSL2/ADSL2+ Annex A
SRX-MP-1ADSL2-B	1-port ADSL2+ Mini-PIM supporting ADSL/ADSL2/ADSL2+ Annex B
SRX-MP-1VDSL2-A	1-port VDSL2 Mini-PIM supporting Annex A, with fallback to ADSL2/ADSL2+
SRX-MP-8GSHDSL	8-wire (4-pair) G.SHDSL Mini-PIM
SRX-MP-1SFP-GE	1-port SFP Mini-PIM for branch SRX Series

MODEL NUMBER	DESCRIPTION
SRX-MP-1T1E1	1-port T1 or E1 Mini-PIM for branch SRX Series
SRX-MP-IDOCSIS3	1-port DOCSIS 3.0 Cable Modem Mini-PIM for SRX Series; backwards compatible with DOCSIS 2.0 and 1.1

### SRX220 Additional Software Feature Licenses

SRX220-K-AV	One year subscription for Juniper-Kaspersky antivirus updates on SRX220
SRX220-S-AV	One year subscription for Juniper-Sophos antivirus updates on SRX220
SRX220-IDP	One year subscription for IDP updates on SRX220
SRX220-S2-AS	One year subscription for Juniper-Sophos antispam updates on SRX220
SRX220-W-WF	One year subscription for Juniper-Websense Web filtering updates on SRX220
SRX220-SMB2-CS	One year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX220
SRX220-S-SMB-CS	One year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX220
SRX220-K-AV-3	Three year subscription for Juniper-Kaspersky antivirus updates on SRX220
SRX220-S-AV-3	Three year subscription for Juniper-Sophos antivirus updates on SRX220
SRX220-IDP-3	Three year subscription for IDP updates on SRX220
SRX220-S2-AS-3	Three year subscription for Juniper-Sophos antispam updates on SRX220
SRX220-W-WF-3	Three year subscription for Juniper-Websense Web filtering updates on SRX220
SRX220-SMB2-CS-3	Three year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX220
SRX220-S-SMB-CS-3	Three year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX220
SRX220-K-AV-5	Five year subscription for Juniper-Kaspersky antivirus updates on SRX220
SRX220-S-AV-5	Five year subscription for Juniper-Sophos antivirus updates on SRX220
SRX220-IDP-5	Five year subscription for IDP updates on SRX220
SRX220-W-WF-5	Five year subscription for Juniper-Websense Web filtering updates on SRX220
SRX220-SMB2-CS-5	Five year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX220
SRX220-S-SMB-CS-5	Five year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX220
SRX-RAC-5-LTU	Dynamic VPN Client: 5 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-10-LTU	Dynamic VPN Client: 10 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-25-LTU	Dynamic VPN Client: 25 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-50-LTU	Dynamic VPN Client: 50 simultaneous users for SRX220 and SRX240 only

## Ordering Information (continued)

MODEL NUMBER	DESCRIPTION
<b>SRX210 Base System</b>	
SRX210BE	SRX210 Services Gateway with 2 GbE + 6 Fast Ethernet ports, 1 Mini-PIM slot, 1 ExpressCard slot and base memory (512 MB RAM, 1 GB Flash)
SRX210HE	SRX210 Services Gateway with 2 GbE+ 6 Fast Ethernet ports, 1 Mini-PIM slot, 1 ExpressCard slot and high memory (1 GB RAM, 1 GB Flash)
SRX210HE-POE	SRX210 Services Gateway with 2 GbE + 6 Fast Ethernet ports, 1 Mini-PIM slot, 1 ExpressCard slot and high memory (1 GB RAM, 1 GB Flash), with 4 ports PoE (50 W)
SRX210B	SRX210 Services Gateway with 2 GbE + 6 Fast Ethernet ports, 1 Mini-PIM slot, 1 ExpressCard slot and base memory (512 MB RAM, 1 GB Flash)
SRX210H	SRX210 Services Gateway with 2 GbE+ 6 Fast Ethernet ports, 1 Mini-PIM slot, 1 ExpressCard slot and high memory (1 GB RAM, 1 GB Flash)
SRX210H-POE	SRX210 Services Gateway with 2 GbE + 6 Fast Ethernet ports, 1 Mini-PIM slot, 1 ExpressCard slot and high memory (1 GB RAM, 1 GB Flash), with 4 ports PoE (50 W)

### SRX210 Interface Modules

SRX-MP-ISERIAL	1-port Sync Serial Mini Physical Interface Module (Mini-PIM) for branch SRX Series
SRX-MP-IADSL2-A	1-port ADSL2+ Mini-PIM supporting ADSL/ADSL2/ADSL2+ Annex A
SRX-MP-IADSL2-B	1-port ADSL2+ Mini-PIM supporting ADSL/ADSL2/ADSL2+ Annex B
SRX-MP-1VDSL2-A	1-port VDSL2 Mini-PIM supporting Annex A, with fallback to ADSL2/ADSL2+
SRX-MP-8GSHDSL	8-wire (4-pair) G.SHDSL Mini-PIM
SRX-MP-1SFP-GE	1-port SFP Mini Physical Interface Module (Mini-PIM) for branch SRX Series
SRX-MP-1T1E1	1-port T1 or E1 Mini Physical Interface Module (Mini-PIM) for branch SRX Series
SRX-MP-1DOCSIS3	1-port DOCSIS 3.0 Cable Modem Mini-PIM for SRX Series; backwards compatible with DOCSIS 2.0 and 1.1

### SRX210 Additional Hardware

SRX210-DESK-STAND	SRX210 desk top stand (holds one unit)
SRX210-RMK	SRX210 rack mount kit for 19 in rack (holds one unit)
SRX210-WALL-KIT	SRX210 wall mount kit (holds one unit)
SRX210-PWR-60W-*	Spare SRX210 switching power supply, 60 W (non-PoE)
SRX210-PWR-150W-*	Spare SRX210 switching power supply, 150 W (PoE)

\*See price list for country-specific power cord model numbers.

MODEL NUMBER	DESCRIPTION
<b>SRX210 Additional Software Feature Licenses</b>	
SRX210-K-AV	One year subscription for Juniper-Kaspersky antivirus updates on SRX210
SRX210-S-AV	One year subscription for Juniper-Sophos antivirus updates on SRX210
SRX210-S-SMB-CS	One year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX210
SRX210-IDP	One year subscription for IDP updates on SRX210
SRX210-S2-AS	One year subscription for Juniper-Sophos antispam updates on SRX210
SRX210-W-WF	One year subscription for Juniper-Websense Web filtering updates on SRX210
SRX210-SMB2-CS	One year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX210
SRX210-K-AV-3	Three year subscription for Juniper-Kaspersky antivirus updates on SRX210
SRX210-S-AV-3	Three year subscription for Juniper-Sophos antivirus updates on SRX210
SRX210-IDP-3	Three year subscription for IDP updates on SRX210
SRX210-S2-AS-3	Three year subscription for Juniper-Sophos antispam updates on SRX210
SRX210-W-WF-3	Three year subscription for Juniper-Websense Web filtering updates on SRX210
SRX210-SMB2-CS-3	Three year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX210
SRX210-S-SMB-CS-3	Three year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX210
SRX210-K-AV-5	Five year subscription for Juniper-Kaspersky antivirus updates on SRX210
SRX210-S-AV-5	Five year subscription for Juniper-Sophos antivirus updates on SRX210
SRX210-IDP-5	Five year subscription for IDP updates on SRX210
SRX210-S2-AS-5	Five year subscription for Juniper-Sophos antispam updates on SRX210
SRX210-W-WF-5	Five year subscription for Juniper-Websense Web filtering updates on SRX210
SRX210-SMB2-CS-5	Five year security subscription for enterprise—includes Kaspersky antivirus, Web Filtering, Sophos antispam, and IDP on SRX210
SRX210-S-SMB-CS-5	Five year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX210
SRX-RAC-5-LTU	Dynamic VPN Client: 5 simultaneous users for SRX100, SRX210, SRX220, SRX240, and SRX650 only
SRX-RAC-10-LTU	Dynamic VPN Client: 10 simultaneous users for SRX100, SRX210, SRX220, SRX240, and SRX650 only
SRX-RAC-25-LTU	Dynamic VPN Client: 25 simultaneous users for SRX100, SRX210, SRX220, SRX240, and SRX650 only

## Ordering Information (continued)

MODEL NUMBER	DESCRIPTION
<b>SRX210 Small Form Factor Pluggable (SFP) Transceivers</b>	
SRX-SFP-1GE-LH	SFP 1000BASE-LH Optical Transceiver
SRX-SFP-1GE-LX	SFP 1000BASE-LX Optical Transceiver
SRX-SFP-1GE-SX	SFP 1000BASE-SX Optical Transceiver
SRX-SFP-1GE-T	SFP 1000BASE-T Copper Transceiver
SRX-SFP-FE-FX	SFP 100BASE-FX Optical Transceiver

### SRX100 Base System

SRX100B	SRX100 Services Gateway with 8xFE ports and base memory (On-board 1 GB RAM w/ 512 MB accessible, 1 GB Flash)
SRX100H	SRX100 Services Gateway with 8xFE ports and high memory (1 GB RAM, 1 GB Flash)

### SRX100 Additional Hardware

SRX100-PWR-30W-*	Spare SRX100 switching power supply, 30 W (non-PoE)
SRX-100-RMK	SRX100 19" rack mount kit (holds two units)
SRX100-WALL-KIT	SRX100 wall mount kit (holds one unit)
SRX100-DESK-STAND	SRX100 desk stand (holds one unit)

\*See price list for country-specific power cord model numbers.

### SRX100 Additional Software Feature Licenses

SRX100-MEM-LIC-UPG	SRX100 memory software license—upgrades SRX100B model from 512 MB RAM to 1 GB RAM
SRX100-K-AV	One year subscription for Juniper-Kaspersky antivirus updates on SRX100
SRX100-S-AV	One year subscription for Juniper-Sophos antivirus updates on SRX100
SRX100-W-WF	One year subscription for Juniper-Websense Web filtering updates on SRX100
SRX100-S2-AS	One year subscription for Juniper-Sophos antispam updates on SRX100
SRX100-IDP	One year subscription for IDP updates on SRX100
SRX100-SMB2-CS	One year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX100
SRX100-S-SMB-CS	One year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX100

MODEL NUMBER	DESCRIPTION
SRX100-S-SMB-CS	Three year subscription for Juniper-Kaspersky antivirus updates on SRX100
SRX100-K-AV-3	Three year subscription for Juniper-Sophos antivirus updates on SRX100
SRX100-S-AV-3	Three year subscription for Juniper-Websense Web filtering updates on SRX100
SRX100-W-WF-3	Three year subscription for IDP updates on SRX100
SRX100-IDP-3	Three year subscription for Juniper-Sophos antispam updates on SRX100
SRX100-S2-AS-3	Three year security subscription for enterprise—includes Kaspersky antivirus, Web filtering, Sophos antispam, and IDP on SRX100
SRX100-SMB2-CS-3	Three year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IPS on SRX100
SRX100-S-SMB-CS-3	Five year subscription for Juniper-Kaspersky antivirus updates on SRX100
SRX100-K-AV-5	Five year subscription for Juniper-Sophos antivirus updates on SRX100
SRX100-S-AV-5	Five year subscription for IDP updates on SRX100
SRX100-S2-AS-5	Five year subscription for Juniper-Sophos antispam updates on SRX100
SRX100-W-WF-5	Five year subscription for Juniper-Websense Web filtering updates on SRX100
SRX100-SMB2-CS-5	Five year security subscription for enterprise—includes Kaspersky antivirus, Web Filtering, Sophos antispam, and IDP on SRX100
SRX100-S-SMB-CS-5	Five year security subscription for enterprise—includes Sophos antivirus, Web filtering, Sophos antispam and IDP on SRX100

### SRX100 Dynamic VPN Client

SRX-RAC-5-LTU	5 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-10-LTU	10 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only
SRX-RAC-25-LTU	25 simultaneous users for SRX100, SRX210, SRX220, and SRX240 only

## About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at [www.juniper.net](http://www.juniper.net).

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