SRX5600 AND SRX5800 SERVICES GATEWAYS

Product Overview

Juniper Networks SRX5000 line of services gateways is the next-generation solution for securing the ever increasing network infrastructure and applications requirements for both enterprise and service provider environments. Designed from the ground up to provide flexible processing scalability, I/O scalability, and services integration, the SRX5000 line can meet the network and security requirements of data center hyper-consolidation, rapid managed services deployments, and aggregation of security solutions. Incorporating the routing heritage and service provider reliability of Junos OS with the rich security heritage of ScreenOS, service provider reliability, and ScreenOS security heritage, the SRX Series also offers the high feature/service integration necessary to secure modern network infrastructure and applications.

Product Description

The Juniper Networks® SRX5600 and SRX5800 Services Gateways are next-generation security platforms based on a revolutionary new architecture that provides market-leading performance, scalability, and service integration. These devices are ideally suited for service provider, large enterprise and public sector networks including:

- Cloud and hosting provider data centers
- Securing mobile operator environments
- Managed service providers
- Securing core service provider infrastructure
- Large enterprise data centers
- Aggregation of departmental and segmented security solutions

Based on Juniper's dynamic services architecture, the SRX5000 line provides unrivaled scalability and performance. Each services gateway can support near linear scalability, with the addition of services processing cards (SPC) enabling a fully equipped SRX5800 to support more than 120 Gbps firewall throughput. The SPCs are designed to support a wide range of services enabling future support of new capabilities without the need for service-specific hardware. Using SPCs on all services ensures that there are no idle resources based on specific services being used—maximizing hardware utilization.

The scalability and flexibility of the SRX5000 line is supported by equally robust interfaces. The SRX5000 line employs a modular approach to interfaces where each platform can be equipped with a flexible number of input/output cards (IOCs). With the IOCs sharing the same interface slot as the SPCs, the gateway can be configured as needed to support the ideal balance of processing and I/O. Hence, each deployment of the SRX Series can be tailored to specific network requirements. With this flexibility, the SRX5800 can be configured to support more than 400 Gigabit Ethernet ports or 88 10-Gigabit Ethernet ports.

The scalability of both SPCs and IOCs in the SRX5000 line is enabled by the custom designed switch fabric. Supporting up to 960 Gbps of data transfer, the fabric enables realization of maximum processing and I/O capability available in any particular configuration. This level of scalability and flexibility facilitates future expansion and growth of the network infrastructure, providing unrivaled investment protection.

The tight service integration on the SRX Series is enabled by Juniper Networks Junos® operating system. By combining the routing heritage of Junos OS and the security heritage of ScreenOS®, the SRX Series is equipped with a robust list of services that include firewall, intrusion prevention system (IPS), denial of service (DoS), application security, Network Address Translation (NAT), and quality of service (QoS). In addition to the benefit of individual services, incorporating multiple security and networking services within one OS greatly optimizes the flow of traffic through the platform. Network traffic no longer needs to be routed across multiple data paths/cards or even disparate operating systems within a single gateway.

Junos OS also delivers carrier-class reliability to the already redundant SRX Series. The SRX Series enjoys the benefit of a single source OS, single release train, and single integrated architecture traditionally available on Juniper's carrier-class routers and switches. The SRX Series is managed by Juniper Networks Network and Security Manager (NSM), the single application used to manage all Juniper Networks firewall, IPS, Secure Sockets Layer (SSL), Juniper Networks Unified Access Control (UAC), and EX Series products.

SRX5800

The SRX5800 Services Gateway is the market-leading security solution supporting more than 120 Gbps firewall, 30 Gbps IPS and 350,000 connections per second. Equipped with the full range of security services, SRX5800 is ideally suited for securing large enterprise, hosted or co-located data centers, secure service provider, and cloud provider infrastructures, and mobile operator environments. The massive performance, scalability and flexibility of the SRX5800 makes it ideal for densely consolidated processing environments, and the service density makes it ideal for cloud and managed service providers.

SRX5600

The SRX5600 Services Gateway uses the same SPCs and IOCs as the SRX5800 and can support up to 60 Gbps firewall and 15 Gbps IPS. The SRX5600 is ideally suited for securing enterprise data centers as well as aggregation of various security solutions. The capability to support unique security policies per zones and its ability to scale with the growth of the network infrastructure makes the SRX5600 an ideal deployment for consolidation of services in large enterprise, service provider or mobile operator environments.

Service Processing Cards

As the "brains" behind the SRX5000 line, SPCs are designed to process all available services on the platform. Without the need for dedicated hardware for specific services or capabilities, there are no instances in which a piece of hardware is taxed to the limit while other hardware is sitting idle. SPCs are designed to be pooled together, allowing the SRX5000 line to expand performance and capacities with the introduction of additional SPCs, drastically reducing management overhead and complexity. The same SPCs are supported on both SRX5600 and SRX5800 Services Gateways.

Input Output Cards

To provide the most flexible solution, the SRX5000 line employ the same modular architecture for SPCs and IOCs. The SRX5000 line can be equipped with one or several IOCs, supporting the ideal mix of interfaces (either Gigabit Ethernet or 10-Gigabit Ethernet). With the flexibility to install an IOC or an SPC on any available slot, the SRX5000 line can be equipped to support the perfect blend of interfaces and processing capabilities to meet the needs of the most demanding environments.

Features and Benefits

Networking and Security

Juniper Networks SRX5000 line has been designed from the ground up to offer robust networking and security services.

FEATURE	FEATURE DESCRIPTION	BENEFITS
Purpose-built platform	Built from the ground up on dedicated hardware designed for networking and security services.	Delivers unrivaled performance and flexibility to protect high-speed network environments.
Scalable performance	Offers scalable processing based on the Dynamic Services Architecture.	Simple and cost-effective solution to leverage new services with appropriate processing.
System and network resiliency	Provides carrier-class hardware design and proven OS.	Offers the reliability needed for any critical high-speed network deployments without service interruption.
High availability (HA)	Active/passive and active/active HA configurations using dedicated high availability interfaces.	Achieve availability and resiliency necessary for critical networks.
Interface flexibility	Offers flexible I/O options with modular cards based on the Dynamic Services Architecture.	Offers flexible I/O configuration and independent I/O scalability to meet the port density requirements of demanding network environments.
Network segmentation	Security zones, virtual LANs (VLANs), and virtual routers that allow administrators to deploy security policies to isolate subnetworks and use overlapping IP address ranges.	Features the capability to tailor unique security and networking policies for various internal, external, and demilitarized zone (DMZ) subgroups.
Robust routing engine	Dedicated routing engine that provides physical and logical separation to data and control planes.	Enables deployment of consolidated routing and security devices, as well as ensuring the security of routing infrastructure—all via a dedicated management environment.
Comprehensive threat protection	Tightly integrated services on Junos OS including multi-gigabit firewall, IPS, DoS, application security, and other networking and security services.	Unmatched integration ensuring network security against all level of attacks.
Stateful GPRS inspection	Support for GPRS firewall in mobile operator networks.	Enables the SRX5000 line to provide stateful firewall capabilities for protecting key GPRS nodes within mobile operator networks.
Role/Identity-based access control enforcement	Secure access to data center resources via tight integration of Juniper Networks Unified Access Control and SRX5000 line.	Enables user- and identity-based security services for enterprise data centers by integrating the SRX5000 line with the standards-based access control capabilities of Juniper Networks Unified Access Control.

Traffic Inspection Methods

Juniper Networks SRX Series Services Gateways support various detection methods to accurately identify the application and traffic flow through the network.

FEATURE	FEATURE DESCRIPTION	BENEFITS
Protocol anomaly detection	Protocol usage against published RFCs is verified to detect any violations or abuse.	Proactively protect network from undiscovered vulnerabilities.
Traffic anomaly detection	Heuristic rules detect unexpected traffic patterns that may suggest reconnaissance or attacks.	Proactively prevent reconnaissance activities or block distributed denial of service (DDoS) attacks.
IP spoofing detection	The validity of allowed addresses inside and outside the network are checked.	Permit only authentic traffic while blocking disguised source.
DoS detection	Protection against SYN flood, IP, ICMP, and application attacks.	Protect your key network assets from being overwhelmed by denial of service attacks.

AppSecure

Juniper Networks AppSecure is a suite of next-generation security capabilities that utilize advanced application identification and classification to deliver greater visibility, enforcement, control and protection over the network.

FEATURE	FEATURE DESCRIPTION	BENEFITS
AppTrack	Detailed analysis on application volume/usage throughout the network based on bytes, packets and sessions.	Provides the ability to track application usage to help identify high-risk applications and analyze traffic patterns for improved network management and control.
AppFW*	Fine grained application control policies to allow or deny traffic based on dynamic application name or group names.	Enhances security policy creation and enforcement based on applications and user roles rather than traditional port and protocol analysis.

AppSecure (continued)

FEATURE	FEATURE DESCRIPTION	BENEFITS
AppQoS**	Set prioritization of traffic based on application information and contexts.	Provides the ability to prioritize traffic as well as limit and shape bandwidth based on application information and contexts for improved application and overall network performance.
AppDoS	Multi-stage detection methods used to identify and mitigate targeted attacks from disrupting critical applications and services.	Identifies attacking botnet traffic against legitimate client traffic to prevent distributed denial of service attacks targeting applications.
Application signatures	More than 700 signatures for identifying applications and nested applications.	Applications are accurately identified and the resulting information can be used for visibility, enforcement, control and protection.
SSL inspection	Inspection of HTTP traffic encrypted in SSL on any TCP/UDP port.	Combined with application identification, provides visibility and protection against threats embedded in SSL encrypted traffic.

IPS Capabilities

Juniper Networks IPS capabilities offer several unique features that assure the highest level of network security.

FEATURE	FEATURE DESCRIPTION	BENEFITS
Stateful signature inspection	Signatures are applied only to relevant portions of the network traffic determined by the appropriate protocol context.	Minimize false positives and offer flexible signature development.
Protocol decodes	More than 65 protocol decodes are supported along with more than 500 contexts to enforce proper usage of protocols.	Accuracy of signatures are improved through precise contexts of protocols.
Signatures[1]	There are more than 6,000 signatures for identifying anomalies, attacks, spyware, and applications.	Attacks are accurately identified and attempts at exploiting a known vulnerability are detected.
Traffic normalization	Reassembly, normalization, and protocol decoding are provided.	Overcome attempts to bypass other IPS detections by using obfuscation methods.
Zero-day protection	Protocol anomaly detection and same-day coverage for newly found vulnerabilities are provided.	Your network is already protected against any new exploits.
Recommended policy	Group of attack signatures are identified by Juniper Networks Security Team as critical for the typical enterprise to protect against.	Installation and maintenance are simplified while ensuring the highest network security.
Active/active traffic monitoring	IPS monitoring on active/active SRX5000 line chassis clusters.	Support for active/active IPS monitoring including advanced features such as low impact chassis upgrades.

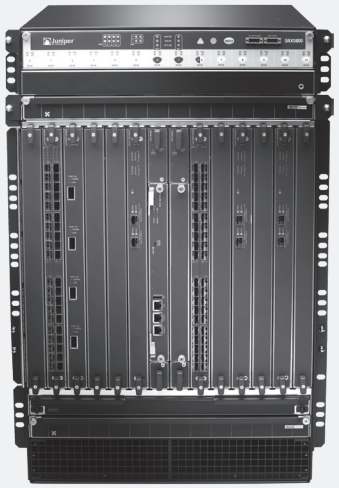
Centralized Management

Juniper Networks SRX Series Services Gateways are managed by NSM, the common management solution for all Juniper Networks firewall, IDP Series, SA Series SSL VPN, UAC, and EX Series products.

FEATURE	FEATURE DESCRIPTION	BENEFITS
Role-based administration	More than 100 different activities can be assigned as unique permissions for different administrators.	Streamline business operations by logically separating and enforcing roles of various administrators.
Scheduled security update	Automatically update SRX Series with new attack objects/signatures.	Up-to-the-minute security coverage is provided without manual intervention.
Domains	Enable logical separation of devices, policies, reports, and other management activities.	Conform to business operations by grouping devices based on business practices.
Object locking	Enable safe concurrent modification to the management settings.	Avoid incorrect configuration due to overwritten management settings.
Scheduled database backup	Automatic backup of NSM database is provided.	Provide configuration redundancy.
Job manager	View pending and completed jobs.	Simplify update of multiple devices.

[1]As of May 2010, there are 6,200 signatures with approximately 10 new signatures added every week. Subscription to signature update service is required to receive new signatures.
* AppFW is targeted for 1H2011
** AppQoS is targeted for 2H2011

SRX5600 SERVICES GATEWAY



SRX5800 SERVICES GATEWAY

Specifications

	SRX5600	SRX5800
Maximum Performance and Capacity[2]		
Tested configuration to achieve performance, capacities and features listed below: SRX5600 chassis equipped with four (4) SPCs and two (2) IOCs SRX5800 chassis equipped with eight (8) SPCs and four (4) IOCs		
Junos OS version tested	Junos OS 10.2	Junos OS 10.2
Firewall performance (max)	60 Gbps	120 Gbps
Firewall performance (IMIX)	20 Gbps	45 Gbps
Firewall packets per second (64 bytes)	7 Mpps	15 Mpps
Maximum AES256+SHA-1 VPN performance	15 Gbps	30 Gbps
Maximum 3DES+SHA-1 VPN performance	15 Gbps	30 Gbps
Maximum IPS performance	15 Gbps	30 Gbps
Maximum AppTrack performance	50 Gbps	100 Gbps
Maximum concurrent sessions	9 Million	10 Million
New sessions/second (sustained, tcp, 3way)	350,000	350,000
Maximum security policies	80,000	80,000
Maximum user supported	Unrestricted	Unrestricted
Network Connectivity		
Maximum available slots for IOCs	5	11
LAN interface options	40 x 1-Gigabit Ethernet SFP 4 x 10-Gigabit Ethernet XFP (SR or LR) 16 x 1-Gigabit Ethernet Flex IOC 4 x 10-Gigabit Ethernet XFP Flex IOC	40 x 1- Gigabit Ethernet SFP 4 x 10-Gigabit Ethernet XFP (SR or LR) 16 x 1-Gigabit Ethernet Flex IOC 4 x 10-Gigabit Ethernet XFP Flex IOC
Processing Scalability		
Maximum available slots for SPCs	5	11
SPC options	Dual CPU with 8 GB total memory	Dual CPU with 8 GB total memory

[2] Performance, capacity and features listed are based on systems runninng Junos OS 10.2 and are measured under ideal testing conditions. Actual results may vary based on Junos OS releases and by deployments.

	SRX5600	SRX5800
Firewall		
Network attack detection	Yes	Yes
DoS and DDoS protection	Yes	Yes
TCP reassembly for fragmented packet protection	Yes	Yes
Brute force attack mitigation	Yes	Yes
SYN cookie protection	Yes	Yes
Zone-based IP spoofing	Yes	Yes
Malformed packet protection	Yes	Yes
IPsec VPN		
Site-to-site tunnels	10,000	10,000
Tunnel interfaces	10,000	10,000
DES (56-bit), 3DES (168-bit), and AES encryption	Yes	Yes
MD5 and SHA-1 authentication	Yes	Yes
Manual key, IKE, PKI (X.509)	Yes	Yes
Perfect forward secrecy (DH groups)	1, 2, 5	1, 2, 5
Prevent replay attack	Yes	Yes
Remote access VPN	Yes	Yes
Redundant VPN gateways	Yes	Yes
Intrusion Prevention System		
Modes of operation: In-line and in-line tap	Yes	Yes
Active/active traffic monitoring	Yes	Yes
Stateful protocol signatures	Yes	Yes
Attack detection mechanisms	Stateful signatures, protocol anomaly detection (zero-day coverage), application identification	Stateful signatures, protocol anomaly detection (zero-day coverage), application identification
Attack response mechanisms	Drop connection, close connection, session packet log, session summary, email	Drop connection, close connection, session packet log, session summary, email
Attack notification mechanisms	Structured syslog	Structured syslog
Worm protection	Yes	Yes
Simplified installation through recommended policies	Yes	Yes
Trojan protection	Yes	Yes
Spyware/adware/keylogger protection	Yes	Yes
Other malware protection	Yes	Yes
Application denial of service protection	Yes	Yes
Protection against attack proliferation from infected systems	Yes	Yes
Reconnaissance protection	Yes	Yes
Request and response side attack protection	Yes	Yes
Compound attacks—combines stateful signatures and protocol anomalies	Yes	Yes
Create custom attack signatures	Yes	Yes
Access contexts for customization	500+	500+
Attack editing (port range, other)	Yes	Yes
Stream signatures	Yes	Yes
Protocol thresholds	Yes	Yes
Stateful protocol signatures	Yes	Yes
Approximate number of attacks covered	6,000+	6,000+
Detailed threat descriptions and remediation/patch info	Yes	Yes
Create and enforce appropriate application-usage policies	Yes	Yes
Attacker and target audit trail and reporting	Yes	Yes
Frequency of updates	Daily and emergency	Daily and emergency

	SRX5600	SRX5800
GPRS Security		
GPRS stateful firewall	Yes	Yes
GTP tunnels	1,000,000	1,000,000
Destination Network Address Translation		
Destination NAT with PAT	Yes	Yes
Destination NAT within same subnet as ingress interface IP	Yes	Yes
Destination addresses and port numbers to one single address and a specific port number (M:1P)	Yes	Yes
Destination addresses to one single address (M:1)	Yes	Yes
Destination addresses to another range of addresses (M:M)	Yes	Yes
Source Network Address Translation		
Static Source NAT - IP-shifting DIP	Yes	Yes
Source NAT with PAT - port-translated	Yes	Yes
Source NAT without PAT - fix-port	Yes	Yes
Source NAT - IP address persistency	Yes	Yes
Source pool grouping	Yes	Yes
Source pool utilization alarm	Yes	Yes
Source IP outside of the interface subnet	Yes	Yes
Interface source NAT - interface DIP	Yes	Yes
Oversubscribed NAT pool with fallback to PAT when the address pool is exhausted	Yes	Yes
Symmetric NAT	Yes	Yes
Allocate multiple ranges in NAT pool	Yes	Yes
Proxy ARP for physical port	Yes	Yes
Source NAT with loopback grouping - DIP with loopback grouping	Yes	Yes
User Authentication and Access Control		
Built-in (internal) database	Yes	Yes
RADIUS accounting	Yes	Yes
Web-based authentication	Yes	Yes
Public Key Infrastructure (PKI) Support		
PKI certificate requests (PKCS 7 and PKCS 10)	Yes	Yes
Automated certificate enrollment (SCEP)	Yes	Yes
Certificate authorities supported	Yes	Yes
Self-signed certificates	Yes	Yes
Virtualization		
Maximum number of security zones	256	512
Maximum number of virtual routers	500	500
Maximum number of VLANs	4096	4096
Routing		
BGP instances	128	128
BGP peers	2,000	2,000
BGP routes	1,000,000*	1,000,000*
OSPF instances	400	400
OSPF routes	1,000,000*	1,000,000*
RIP v1/v2 instances	50	50
RIP v2 table size	30,000	30,000
Dynamic routing	Yes	Yes

* Maximum number of BGP and OSPF routes recommended is 100,000.

	SRX5600	SRX5800
Routing (continued)		
Static routes	Yes	Yes
Source-based routing	Yes	Yes
Policy-based routing	Yes	Yes
Equal cost multipath (ECMP)	Yes	Yes
Reverse path forwarding (RPF)	Yes	Yes
Multicast	Yes	Yes
IPv6		
Firewall/stateless filters	Yes	Yes
Dual stack IPv4/IPv6 firewall	Yes	Yes
RIPng	Yes	Yes
BFD, BGP	Yes	Yes
ICMPv6	Yes	Yes
OSPFv3	Yes	Yes
Class of service	Yes	Yes
Mode of Operation		
Layer 2 (transparent) mode	Yes	Yes
Layer 3 (route and/or NAT) mode	Yes	Yes
IP Address Assignment		
Static	Yes	Yes
Dynamic Host Configuration Protocol (DHCP)	Yes	Yes
Internal DHCP server	Yes	Yes
DHCP relay	Yes	Yes
Traffic Management Quality of Service (QoS)		
Maximum bandwidth	Yes	Yes
RFC2474 IP Diffserv in IPv4	Yes	Yes
Firewall filters for COS	Yes	Yes
Classification	Yes	Yes
Scheduling	Yes	Yes
Shaping	Yes	Yes
Intelligent Drop Mechanisms (WRED)	Yes	Yes
Three level scheduling	Yes	Yes
Weighted round robin for each level of scheduling	Yes	Yes
Priority of routing protocols	Yes	Yes
Traffic management/policing in hardware	Yes	Yes
High Availability (HA)		
Active/passive, active/active	Yes	Yes
Low impact chassis cluster upgrades	Yes	Yes
Configuration synchronization	Yes	Yes
Session synchronization for firewall and IPsec VPN	Yes	Yes
Session failover for routing change	Yes	Yes
Device failure detection	Yes	Yes
Link and upstream failure detection	Yes	Yes
Dual control links	Yes	Yes
Interface link aggregation/LACP	Yes	Yes
Redundant data and control links*	Yes	Yes

*To enable dual control links on the SRX5000 line, two SRX5K-RE-13-20 modules must be installed on each cluster member.

	SRX5600	SRX5800
Management		
WebUI (HTTP and HTTPS)	Yes	Yes
Command line interface (console)	Yes	Yes
Command line interface (telnet)	Yes	Yes
Command line interface (SSH)	Yes	Yes
Network and Security Manager version 2008.1 or later	Yes	Yes
Administration		
Local administrator database support	Yes	Yes
External administrator database support	Yes	Yes
Restricted administrative networks	Yes	Yes
Root admin, admin, and read only user levels	Yes	Yes
Software upgrades	Yes	Yes
Configuration rollback	Yes	Yes
Logging/Monitoring		
Structured syslog	Yes	Yes
SNMP (v2)	Yes	Yes
Traceroute	Yes	Yes
Dimensions and Power		
Dimensions (W x H x D)	17.5 x 14 x 23.8 in (44.5 x 35.6 x 60.5 cm)	17.5 x 27.8 x 23.5 in (44.5 x 70.5 x 59.7 cm)
Weight	Fully Configured: 180 lb / 81.7 kg	Fully Configured: 334 lb / 151.6 kg
Power supply (AC)	100 to 240 VAC	200 to 240 VAC
Power supply (DC)	-40 to -60 VDC	-40 to -60 VDC
Maximum power draw	2,800 watts	5,100 watts
Certifications		
Safety certifications	Yes	Yes
Electromagnetic Compatibility (EMC) certifications	Yes	Yes
NEBS Level 3	Yes	Yes
Security Certifications		
Common Criteria : EAL3	Yes	Yes
3GPP TS 20.060 Compliance*		
R6: 3GPP TS 29.060 version 6.21.0	Yes	Yes
R7: 3GPP TS 29.060 version 7.3.0	Yes	Yes
R8: 3GPP TS 29.060 version 8.3.0	Yes	Yes
Operating temperature	32° to 104° F 0° to 40° C	32° to 104° F 0° to 40° C
Humidity	5% to 90% noncondensing	5% to 90% noncondensing

* SRX5000 line of gateways operating with Junos OS release 10.0 and later are compliant with the R6, R7, and R8 releases of 3GPP TS 20.060 with the following exceptions (not supported on the SRX5000 line):
- Section 7.5A Multimedia Broadcast and Multicast Services (MBMS) messages
- Section 7,5B Mobile Station (MS) info change messages
- Section 7.3.12 Initiate secondary PDP context from GGSN

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains and faster rollouts of new business models and ventures. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit **www.juniper.net/us/en/products-services/.**

Ordering Information

MODEL NUMBER	DESCRIPTION
Base Systems	
SRX5600BASE-AC	AC SRX5600 chassis, includes RE, SCB, 2 AC power supplies
SRX5600BASE-DC	DC SRX5600 chassis, includes RE, SCB, 2 DC power supplies
SRX5800BASE-AC	AC SRX5800 chassis, includes RE, 2xSCB, 3 AC power supplies
SRX5800BASE-DC	DC SRX5800 chassis, includes RE, 2xSCB, 2 DC power supplies
SRX5000 Line Components	
SRX5K-SCB	SCB SRX5000 line Switch Control Board
SRX5K-RE-13-20	SRX5000 line Routing Engine, 1.3 GHz, 2 GB DRAM
SRX5K-SPC-2-10-40	SRX5000 line Service Processing Card
SRX5K-4XGE-XFP	4x10 Gigabit XFP Ethernet I/O Card for the SRX5000 line, no transceivers
SRX5K-40GE-SFP	40x1 Gigabit SFP Ethernet I/O Card for the SRX5000 line, no transceivers
SRX5K-FPC-IOC	SRX5000 line Flex IOC – supports 2 pluggable port modules
SRX-IOC-16GE-TX	SRX5000 line Flex IOC 16-port 10/100/1000 Ethernet module
SRX-IOC-16GE-SFP	SRX5000 line Flex IOC 16-port SFP Ethernet module, no transceivers
SRX-IOC-4XGE-XFP	SRX5000 line Flex IOC 4x10 Gigabit XFP Ethernet module, no transceivers
SRX5K-IOC-BLANK	Blank Panel for SRX5K-FPC-IOC
Transceivers	
SRX-SFP-1GE-LH	Small form factor pluggable 1000BASE-LH Gigabit Ethernet optic module
SRX-SFP-1GE-LX	Small form-factor pluggable 1000BASE-LX Gigabit Ethernet Optic Module
SRX-SFP-1GE-SX	Small form-factor pluggable 1000BASE-SX Gigabit Ethernet Optic Module
SRX-SFP-1GE-T	Small form-factor pluggable 1000BASE-T Gigabit Ethernet Module (uses Cat 5 cable)
SRX-XFP-10GE-SR	10-Gigabit Ethernet pluggable transceiver, short reach multimode
SRX-XFP-10GE-LR	10-Gigabit Ethernet pluggable transceiver, 10 Km, single mode
SRX-XFP-10GE-ER	10-Gigabit Ethernet pluggable transceiver, 40 Km, single mode
AppSecure Subscription	
SRX3400-APPSEC-A-1	One year subscription for Application Security and IPS updates for SRX3400
SRX3400-APPSEC-A-3	Three year subscription for Application Security and IPS updates for SRX3400
SRX3600-APPSEC-A-1	One year subscription for Application Security and IPS updates for SRX3600
SRX3600-APPSEC-A-3	Three year subscription for Application Security and IPS updates for SRX3600
SRX5600-APPSEC-A-1	One year subscription for Application Security and IPS updates for SRX5600
SRX5600-APPSEC-A-3	Three year subscription for Application Security and IPS updates for SRX5600
SRX5800-APPSEC-A-1	One year subscription for Application Security and IPS updates for SRX5800
SRX5800-APPSEC-A-3	Three year subscription for Application Security and IPS updates for SRX5800

MODEL NUMBER	DESCRIPTION
IPS Subscription	
SRX5K-IDP	One year IPS signature subscription
SRX5K-IDP-3	Three year IPS signature subsciption
SRX5K-IDP-3-R	Three year IPS signature subscription renewal
SRX5K-IDP-R	One year IPS signature subscription renewal
Power Cords	
CBL-M-PWR-RA-AU	AC power cord, Australia (SAA/3/15), C19, 15 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-CH	AC power cord, China (GB 2099.1-1996, Angle), C19, 16 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-EU	AC power cord, Cont. Europe (VII), C19, 16 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-IT	AC power cord, Italy (I/3/16), C19, 16 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-JP	AC power cord, Japan (NEMA LOCKING), C19, 20 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-TWLK-US	AC power cord, US (NEMA LOCKING), C19, 20 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-UK	AC power cord, UK (BS89/13), C19, 13 A/250 V, 2.5 m, Right Angle
CBL-M-PWR-RA-US	AC power cord, USA/Canada (N6/20), C19, 20 A/250 V, 2.5 m, Right Angle
CBL-PWR-RA-JP15	AC power cable, JIS 8303 15 A/125 V 2.5 m length for Japan, Right Angle
CBL-PWR-RA-TWLK-US15	AC power cable, NEMA L5-15P (twist lock) 15 A/125 V 2.5 m length for U.S., Canada, and Mexico, Right Angle
CBL-PWR-RA-US15	AC power cable, NEMA 5-15 15 A/125 V, 2.5 m length for North America, parts of South America, parts of Central America, parts of Africa, and parts of Asia, Right Angle

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at **www.juniper.net.**

Notes

Corporate and Sales Headquarters
Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or 408.745.2000
Fax: 408.745.2100
www.juniper.net

APAC Headquarters
Juniper Networks (Hong Kong)
26/F, Cityplaza One
1111 King's Road
Taikoo Shing, Hong Kong
Phone: 852.2332.3636
Fax: 852.2574.7803

EMEA Headquarters
Juniper Networks Ireland
Airside Business Park
Swords, County Dublin, Ireland
Phone: 35.31.8903.600
EMEA Sales: 00800.4586.4737
Fax: 35.31.8903.601

To purchase Juniper Networks solutions, please contact your Juniper Networks representative at 1-866-298-6428 or authorized reseller.

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