# Security Products Comparison Chart

| SRX and vSRX (formerly Firefly Perimeter) Performance and Features Matrix | | SRX100 | SRX110 | SRX210 | SRX220 | SRX240 | SRX550 | SRX650 |
|---|---|---|---|---|---|---|---|---|
| | | Branch / Office | Branch / Office | Branch / Office | Branch / Office | Branch / Office | Branch / Office | Large Office |
| Performance | Firewall throughput (large packets) | 700 Mbps | 700 Mbps | 850 Mbps | 950 Mbps | 1.8 Gbps | 5.5 Gbps | 7 Gbps |
| | Firewall throughput (IMIX) | 200 Mbps | 200 Mbps | 250 Mbps | 300 Mbps | 600 Mbps | 1.7 Gbps | 2.5 Gbps |
| | IPsec VPN 3DES/AES throughput (large packets) | 65 Mbps | 65 Mbps | 85 Mbps | 100 Mbps | 300 Mbps | 1.0 Gbps | 1.5 Gbps |
| | IPS throughput | 75 Mbps | 75 Mbps | 65 Mbps | 80 Mbps | 230 Mbps | 800 Mbps | 1 Gbps |
| | Antivirus (Sophos AV) throughput | 25 Mbps | 25 Mbps | 30 Mbps | 35 Mbps | 85 Mbps | 300 Mbps | 350 Mbps |
| | Maximum concurrent sessions[1] | 32K | 32K | 64K | 96K | 256K | 375K | 512K |
| | Connections/Sec | 1.8K | 1.8K | 2.2K | 2.8K | 8.5K | 27K | 35K |
| | Interfaces | 8x10/100 | 8x10/100 + 1xVDSL | 2 10/100/1000 + 6 10/100, optional PoE, 1 I/O slot suporting SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL | 8 10/100/1000, optional PoE, 2 I/O slots supporting SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL | 16 10/100/1000, optional PoE, 4 I/O slots supporting SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL | 6 10/100/1000 + 4 SFP, 8 I/O slots supporting GbE, PoE, SFP, ADSL, ADSL2, ADSL2+, Serial, T1, E1, VDSL, DS3, E3 | 4 10/100/1000, 8 I/O slots supporting GbE, PoE, SFP, T1, E1, Serial, DS3, E3 |
| Firewall | DoS and DDoS protection (Layers 3 and 4) | X | X | X | X | X | X | X |
| | TCP reassembly for fragmented packet protection | X | X | X | X | X | X | X |
| | Brute force attack mitigation | X | X | X | X | X | X | X |
| | SYN cookie protection | X | X | X | X | X | X | X |
| | Zone-based IP spoofing | X | X | X | X | X | X | X |
| | Malformed packet protection | X | X | X | X | X | X | X |
| VPN | IPsec VPN | X | X | X | X | X | X | X |
| Security Intelligence for advanced threat protection | Integration with Spotlight Secure for protection from Command and Control related bots, Web application threats, and policy enforcement based on GeoIP | N/A | N/A | N/A | N/A | X | X | X |
| NGFW/L7 Security Services | Intrusion Prevention System (IPS) | X | X | X | X | X | X | X |
| | AppTrack[2] | X | X | X | X | X | X | X |
| | AppFirewall[3] | X | X | X | X | X | X | X |
| | AppQoS[4] | X | X | X | X | X | X | X |
| | AppID (Application Awareness)[5] | X | X | X | X | X | X | X |
| | User Firewall: On-box[6] | X | X | X | X | X | X | X |
| | User Firewall: Integrated w/Juniper's Unified Access Control (UAC) | X | X | X | X | X | X | X |
| | SSL Forward Proxy[7] | N/A | N/A | N/A | N/A | X | X | X |
| | SSL Reverse Proxy | | | | | | | |
| UTM[9] | Antivirus | X | X | X | X | X | X | X |
| | Antispam | X | X | X | X | X | X | X |
| | Web filtering | X | X | X | X | X | X | X |
| | Content filtering | X | X | X | X | X | X | X |
| Networking | Routing | OSPF, BGP, RIPv1/v2, MPLS, Multicast | OSPF, BGP, RIPv1/v2, MPLS, Multicast | OSPF, BGP, RIPv1/v2, MPLS, Multicast | OSPF, BGP, RIPv1/v2, MPLS, Multicast | OSPF, BGP, RIPv1/v2, MPLS, Multicast | OSPF, BGP, RIPv1/v2, MPLS, Multicast | OSPF, BGP, RIPv1/v2, MPLS, Multicast |
| | Multiple WAN, WLAN, LAN options | X | X | X | X | X | X | X |
| Availability | High Availability (A/P, A/A)[11] | X | N/A | X | X | X | X | X |
| | Separate Control and Data Planes | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | In-Service SW & HW Upgrade | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| NAT | NAT | X | X | X | X | X | X | X |
| Management | Centralized management | X | X | X | X | X | X | X |

| SRX and vSRX (formerly Firefly Perimeter) Performance and Features Matrix | | SRX1400 | SRX3400 | SRX3600 | SRX5400 | SRX5600 | SRX5800 | vSRX* |
|---|---|---|---|---|---|---|---|---|
| | | Small / med data center | Med / large data center | Med / large data center | High-perf data center | High-perf data center | High-perf data center | Virtual DC/ Public or Private Cloud |
| Performance | Firewall throughput (large packets) / Express Path | 10 Gbps | 30 Gbps | 55 Gbps | 65 Gbps / 240 Gbps | 130 Gbps / 480 Gbps | 320 Gbps / 2 Tbps | UDP 1514B pkts: VMware: 17 Gbps; KVM: 13.5 Gbps |
| | Firewall throughput (IMIX) | 5 Gbps | 10 Gbps | 20 Gbps | 30 Gbps | 65 Gbps | 130 Gbps | VMware: 4 Gbps; KVM: 3 Gbps |
| | IPsec VPN 3DES/AES throughput (large packets) | 4 Gbps | 8 Gbps | 15 Gbps | 43 Gbps | 75 Gbps | 150 Gbps | AES+SHA1, VMware: 800 Mbps; KVM: 700 Mbps |
| | IPS throughput | 3 Gbps | 8 Gbps | 15 Gbps | 22 Gbps | 50 Gbps | 100 Gbps | VMware: 1.8 Gbps; KVM: 1.4 Gbps |
| | Antivirus (Sophos AV) throughput [10] | 1.29 Gbps | 2.5 Gbps | 4.5 Gbps | Coming soon | 5.8 Gbps | 13.5 Gbps | VMware: 490 Mbps; KVM: 380 Mbps |
| | Maximum concurrent sessions | 1.5M | 2.25M/3M (add'l Extreme License required) | 2.25M/6M (add'l Extreme License required) | 28M | 100M | 100M | 520K |
| | Connections/Sec | 70K | 150K | 150K/270K (add'l license required) | 450K | 450K | 450K | VMware: 54K; KVM: 36K |
| | Interfaces | 6 10/100/1000 + 6 SFP or 6 10/100/1000 + 3 SFP and 3 10GbE (on board) plus optional 16 SFP GbE, 16 10/100/1000, or 2 XFP 10GbE | 8 10/100/1000 + 4 SFP (on-board) plus optional 16 SFP GbE, 16 10/100/1000, or 2 XFP 10 GB | 8 10/100/1000 + 4 SFP (on-board) plus optional 16 SFP GbE, 16 10/100/1000, or 2 XFP 10 GB | Multiple options: 1 GbE 10 GbE 40 GbE 100 GbE | Multiple options: 1 GbE 10 GbE 40 GbE 100 GbE | Multiple options: 1 GbE 10 GbE 40 GbE 100 GbE | Virtual NICs: VMware: 10; KVM: 8 |
| Firewall | DoS and DDoS protection (Layers 3 and 4) | X | X | X | X | X | X | X |
| | TCP reassembly for fragmented packet protection | X | X | X | X | X | X | X |
| | Brute force attack mitigation | X | X | X | X | X | X | X |
| | SYN cookie protection | X | X | X | X | X | X | X |
| | Zone-based IP spoofing | X | X | X | X | X | X | X |
| | Malformed packet protection | X | X | X | X | X | X | X |
| VPN | IPsec VPN | X | X | X | X | X | X | X |
| Security Intelligence for advanced threat protection | Integration with Spotlight Secure for protection from Command and Control related bots, Web application threats, and policy enforcement based on GeoIP | X | X | X | X | X | X | N/A |

*Performance, capacity and features listed are based on the vSRX running Junos OS 15.1X49-D15 and are measured under ideal testing conditions. Actual results may vary based on Junos OS releases and by deployments. For vSRX, the reference platform for performance was a Dell PowerEdge R920, 12 Core, 3.4 Ghz CPUs, SR-IOV enabled. VMware tests were based on ESXi5.5; KVM tests were based on Ubuntu-14.04. Actual performance will depend on the underlying hardware configuration (some server configurations may perform better).

| SRX and vSRX (formerly Firefly Perimeter) Performance and Features Matrix | | SRX1400 | SRX3400 | SRX3600 | SRX5400 | SRX5600 | SRX5800 | vSRX |
|---|---|---|---|---|---|---|---|---|
| | | Small / med data center | Med / large data center | Med / large data center | High-perf data center | High-perf data center | High-perf data center | Virtual DC/ Public or Private Cloud |
| NGFW/L7 Security Services | Intrusion Prevention System (IPS) | X | X | X | X | X | X | X |
| | AppTrack | X | X | X | X | X | X | X |
| | AppFirewall | X | X | X | X | X | X | X |
| | AppQoS[4] | X | X | X | X | X | X | X |
| | AppID (Application Awareness) | X | X | X | X | X | X | X |
| | User Firewall: On-box[6] | X | X | X | X | X | X | N/A |
| | User Firewall: Integrated w/Juniper's Unified Access Control (UAC)[13] | X | X | X | X | X | X | N/A |
| | SSL Forward Proxy | X | X | X | X | X | X | N/A |
| | SSL Reverse Proxy[8] | X | X | X | X | X | X | N/A |
| UTM[9] | Antivirus | X | X | X | X | X | X | X |
| | Antispam | X | X | X | X | X | X | X |
| | Web filtering | X | X | X | X | X | X | X |
| | Content filtering | X | X | X | X | X | X | X |
| Networking | Routing | OSPF, BGP, RIPv1/v2, Multicast | OSPF, BGP, RIPv1/v2, Multicast | OSPF, BGP, RIPv1/v2, Multicast | OSPF, BGP, RIPv1/v2, Multicast | OSPF, BGP, RIPv1/v2, Multicast | OSPF, BGP, RIPv1/v2, Multicast | X |
| | Multiple WAN, WLAN, LAN options | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Availability | High Availability (A/P, A/A)[11, 12] | X | X | X | X | X | X | X |
| | Separate Control and Data Planes | X | X | X | X | X | X | N/A |
| | In-Service SW & HW Upgrade | X | X | X | X | X | X | N/A |
| NAT | NAT | X | X | X | X | X | X | X |
| Management | Centralized management | X | X | X | X | X | X | X |

1. Maximum concurrent sessions for SRX100->SRX240: Based on 2 GbE memory models, which require Junos OS 12.1X44-D15 (exception: Junos OS 11.4r5 for SRX240 only).
2. AppTrack for SRX100->SRX650 currently supported for IPv4 and also IPv6 L3 (roadmap for L2 support).
3. AppFirewall for SRX100->SRX650 currently supported for IPv4 and also IPv6 L3 (roadmap for L2 support).
4. AppQoS for SRX100->SRX650 currently supported for IPv4 (roadmap for IPv6 support). AppQoS for SRX1400->SRX5800 currently supported for IPv4 and also IPv6 L3 (IPv6 L2 in QA).
5. AppID for SRX100->SRX650 currently supported for IPv4 and also IPv6 L3 (roadmap for L2 support).
6. User FW for SRX100->SRX5800 currently supported for IPv4 only.
7. SSL Forward Proxy for SRX100->SRX650 currently supported for IPv4 (roadmap for IPv6 support).
8. SSL Reverse Proxy for SRX1400->SRX5800 currently supported for IPv4 only.
9. Unified Threat Management for SRX100->SRX650 currently supported for IPv4 only. Unified Threat Management for SRX1400->SRX5800 currently supported for IPv4 L3 only.
10. For SRX series, the performance numbers are with current generation SPCs. Numbers will be higher with next generation SPCs (to be published in 2H2014).
11. High availability definitions: A/P = Active / Passive mode, A/A = Active / Active mode.
12. High Availability - For SRX1400, Active/Active is not supported in Junos OS 10.4. For vSRX (formerly Firefly Perimeter), High Availability is currently supported on VMware; KVM support is planned for 12.1X47D15 release.
13. For vSRX, Determinist User FW with Juniper's UAC — we do support L3 enforcement in UAC deployments

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## Juniper Networks Service and Support

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