

# Juniper Networks NetScreen-25/50



The Juniper Networks NetScreen-25 and NetScreen-50 offer a complete security solution for enterprise branch and remote offices as well as small and medium size companies. Featuring four auto-sensing 10/100 Ethernet ports, the NetScreen-25 and NetScreen-50 provide solutions for perimeter security with multiple DMZs, VPNs for wireless LAN security, or protection of internal networks. The NetScreen-25 has the same number of Ethernet interfaces and offers 100 Mbps of firewall and 20 Mbps of 3DES or AES VPN performance, with support for 32,000 concurrent sessions and 125 VPN tunnels. The NetScreen-50 is a high performance security appliance, offering 170 Mbps of firewall and 45 Mbps of 3DES or AES VPN performance, with support for 64,000 concurrent sessions and 500 VPN tunnels.

	Juniper Networks NetScreen-25 <sup>(1)</sup>	Juniper Networks NetScreen-50 <sup>(1)</sup>
<b>Maximum Performance and Capacity<sup>(2)</sup></b>		
ScreenOS version support	ScreenOS 5.2	ScreenOS 5.2
Firewall performance	100 Mbps	170 Mbps
3DES performance	20 Mbps	45 Mbps
Deep Inspection performance	75 Mbps	75 Mbps
Concurrent sessions	32,000	64,000
New sessions/second	4,000	5,000
Policies	500	1,000
Interfaces	4 10/100 Base-T	4 10/100 Base-T
<b>Mode of Operation</b>		
Layer 2 mode (transparent mode) <sup>(3)</sup>	Yes	Yes
Layer 3 mode (route and/or NAT mode)	Yes	Yes
NAT (Network Address Translation)	Yes	Yes
PAT (Port Address Translation)	Yes	Yes
Policy-based NAT	Yes	Yes
Virtual IP	2	2
Mapped IP	500	500
Users supported	Unrestricted	Unrestricted
<b>Firewall</b>		
Number of network attacks detected	31	31
Network attack detection	Yes	Yes
DoS and DDoS protections	Yes	Yes
TCP reassembly for fragmented packet protection	Yes	Yes
Malformed packet protections	Yes	Yes
Deep Inspection firewall	Yes	Yes
Protocol anomaly	Yes	Yes
Stateful protocol signatures	Yes	Yes
DI Protocols supported	HTTP, FTP, SMTP, POP, IMAP, DNS, NetBIOS/SMB, MS-RPC, P2P, IM	HTTP, FTP, SMTP POP, IMAP, DNS NetBIOS/SMB, MS-RPC, P2P, IM
Number of application attacks detected w/DI	over 650	over 650
Content Inspection	Yes	Yes
Embedded antivirus	No	No
Malicious Web filtering	up to 48 URLs	up to 48 URLs
External Web filtering (Websense or SurfControl)	Yes	Yes
Integrated Web filtering	Yes	Yes
Brute force attack mitigation	Yes	Yes
DI attack pattern obfuscation	Yes	Yes
Zone-based IP spoofing	Yes	Yes
<b>VPN</b>		
VPN tunnels	125	500
Tunnel interfaces	25	50
DES (56-bit), 3DES (168-bit) and AES encryption	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
L2TP within IPSec	Yes	Yes
IPSec NAT Traversal	Yes	Yes
Redundant VPN gateways	Yes	Yes
VPN tunnel monitor	Yes	Yes

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<b>Firewall and VPN User Authentication</b>		
Built-in (internal) database - user limit	up to 250	up to 250
3rd Party user authentication	RADIUS, RSA SecurID, and LDAP	RADIUS, RSA SecurID, and LDAP
XAUTH VPN authentication	Yes	Yes
Web-based authentication	Yes	Yes
<b>Logging/Monitoring</b>		
Syslog (multiple servers)	External, up to 4 servers	External, up to 4 servers
E-mail (2 addresses)	Yes	Yes
NetIQ WebTrends	External	External
SNMP (v1, v2)	Yes	Yes
Standard and custom MIB	Yes	Yes
Traceroute	Yes	Yes
At session start and end	Yes	Yes
<b>Virtualization</b>		
Custom security zones	4	4
Virtual Routers (VRs)	3	3
VLANs supported	16	16
<b>Routing</b>		
OSPF/BGP dynamic routing	3 instances each	3 instances each
RIPv1/v2 dynamic routing	3 instances	3 instances
Static routes	2,048	2,048
Source-based routing	Yes	Yes
Equal cost multi-path routing	Yes	Yes
<b>High Availability (HA)</b>		
HA mode	HA Lite	Active/Passive
Firewall/VPN session synchronization	No	Yes
Redundant Interfaces	Yes	Yes
Configuration synchronization	Yes	Yes
Device failure detection	Yes	Yes
Link failure detection	Yes	Yes
Authentication for new HA members	Yes	Yes
Encryption of HA traffic	Yes	Yes
<b>VoIP</b>		
H.323 ALG	Yes	Yes
SIP ALG	Yes	Yes
NAT for H.323/SIP	Yes	Yes
<b>IP Address Assignment</b>		
Static	Yes	Yes
DHCP, PPPoE client	Yes	Yes
Internal DHCP server	Yes	Yes
DHCP relay	Yes	Yes

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<b>PKI Support</b>		
PKI Certificate requests (PKCS 7 and PKCS 10)	Yes	Yes
Automated certificate enrollment (SCEP)	Yes	Yes
Online Certificate Status Protocol (OCSP)	Yes	Yes
Self Signed Certificates	Yes	Yes
Certificate Authorities Supported		
Verisign	Yes	Yes
Entrust	Yes	Yes
Microsoft	Yes	Yes
RSA Keon	Yes	Yes
iPlanet (Netscape)	Yes	Yes
Baltimore	Yes	Yes
DOD PKI	Yes	Yes

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<b>System Management</b>		
WebUI (HTTP and HTTPS)	Yes	Yes
Command Line Interface (console)	Yes	Yes
Command Line Interface (telnet)	Yes	Yes
Command Line Interface (SSH)	Yes, v1.5 and v2.0 compatible	Yes, v1.5 and v2.0 compatible
NetScreen-Security Manager	Yes	Yes
All management via VPN tunnel on any interface	Yes	Yes
SNMP Full Custom MIB	Yes	Yes
Rapid deployment	Yes	Yes

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<b>Administration</b>		
Local administrators database	20	20
External administrator database	RADIUS/LDAP/SecurID	RADIUS/LDAP/SecurID
Restricted administrative networks	6	6
Root Admin, Admin, and Read Only user levels	Yes	Yes
Software upgrades	TFTP/ WebUI/SCP/NSM	TFTP/ WebUI/SCP/NSM
Configuration Roll-back	Yes	Yes

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<b>Traffic Management</b>		
Guaranteed bandwidth	Yes	Yes
Maximum bandwidth	Yes	Yes
Priority-bandwidth utilization	Yes	Yes
DiffServ stamp	Yes	Yes

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<b>External Flash</b>		
CompactFlash™	Supports 96 or 512MB Industrial Grade SanDisk	Supports 96 or 512MB Industrial Grade SanDisk
Event logs and alarms	Yes	Yes
System config script	Yes	Yes
NetScreen ScreenOS software	Yes	Yes

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<b>Dimensions and Power</b>		
Dimensions (H/W/L)	1.73/17.5/10.8 inches	1.73/17.5/10.8 inches
Weight	8 lbs.	8 lbs.
Rack mountable	19" standard, 23" optional	19" standard, 23" optional
Power Supply (AC)	90 to 264 VAC, 45 Watts	90 to 264 VAC, 45 Watts
Power Supply (DC)	-36 to -72 VDC, 50 Watts	-36 to -72 VDC, 50 Watts

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<b>Certifications</b>		
<b>Safety Certifications</b>		
UL, CUL, CSA, CB		
<b>EMC Certifications</b>		
FCC class A, BSMI Class A, CE class A, C-Tick, VCCI class A		

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<b>Environment</b>		
Operational temperature: 23° to 122° F, -5° to 50° C		
Non-operational temperature: -4° to 158° F, -20° to 70° C		
Humidity: 10 to 90% non-condensing		

**MTBF (Bellcore model)**

NetScreen-25: 8.1 years, NetScreen-50: 8.1 years

**Security Certifications (Advanced models only)**

Common Criteria: EAL4 and EAL4+  
ICSA Firewall and VPN

**Licensing Options:** The NetScreen-25 and NetScreen-50 are both available with two licensing options to provide two different levels of functionality and capacity.

**Advanced Models:** The Advanced software license provides all of the features and capacities listed within this specsheet.

**Baseline Models:** The Baseline software license provides an entry-level solution for customer environments where features such as Deep Inspection™, OSPF and BGP dynamic routing, advanced High Availability, and full capacity are not critical requirements. The following table shows the features and capacities that are different than the Advanced models:

	NetScreen-25 Baseline	NetScreen-50 Baseline
Sessions	24,000	48,000
Site-to-site tunnels	50	150
Remote Access Tunnels	Shared w/site-to-site	Shared w/site-to-site
Deep Inspection Firewall	N/A	N/A
VLANs	0	0
OSPF/BGP	N/A	N/A
High Availability (HA)	HA Lite*	HA Lite*
NetScreen Security Manager	Supported	Supported

\*HA Lite provides configuration synchronization only (does not provide session or tunnel synchronization)

**Ordering Information**

Product		Part Number
<b>Juniper Networks NetScreen-50 w/AC power supply</b>		
NetScreen-50	US power cord	NS-050-001
NetScreen-50*	US power cord	NS-050-101
NetScreen-50	UK power cord	NS-050-003
NetScreen-50*	UK power cord	NS-050-103
NetScreen-50	European power cord	NS-050-005
NetScreen-50*	European power cord	NS-050-105
NetScreen-50	Japanese power cord	NS-050-007
NetScreen-50*	Japanese power cord	NS-050-107
*“f” products do not include VPN functionality (international only)		

Product		Part Number
<b>Juniper Networks NetScreen-50 w/DC power supply</b>		
NetScreen-50	w/DC power supply DC power	NS-050-001-DC

Product		Part Number
<b>Juniper Networks NetScreen-25 w/AC power supply</b>		
NetScreen-25	US power cord	NS-025-001
NetScreen-25	UK power cord	NS-025-003
NetScreen-25	European power cord	NS-025-005
NetScreen-25	Japanese power cord	NS-025-007

Product		Part Number
<b>Baseline Products</b>		
NetScreen-50 Baseline	US power cord	NS-050B-001
NetScreen-50 Baseline	UK power cord	NS-050B-003
NetScreen-50 Baseline	European power cord	NS-050B-005
NetScreen-50 Baseline	Japanese power cord	NS-050B-007
NetScreen-50 Baseline to Advanced Upgrade		NS-050-UPG-A
NetScreen-25 Baseline	US power cord	NS-025B-001
NetScreen-25 Baseline	UK power cord	NS-025B-003
NetScreen-25 Baseline	European power cord	NS-025B-005
NetScreen-25 Baseline	Japanese power cord	NS-025B-007
NetScreen-25 Baseline to Advanced Upgrade		NS-025-UPG-A

- (1) Performance, capacity and features listed are based upon the Advanced feature set running ScreenOS 5.2 and may vary with other ScreenOS releases. The Baseline model licensing option provides a subset of features as described in the table below. Actual throughput for Advanced and Baseline products may vary based upon packet size and enabled features.
- (2) Performance and capacity provided are the measured maximums under ideal testing conditions and may vary by deployment.
- (3) The following features are not supported in Layer 2 (transparent mode): NAT, PAT, policy based NAT, virtual IP, mapped IP, VLANs, OSPF, BGP, RIPv2, and IP address assignment.



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