

Juniper Networks NetScreen-204/208



The Juniper Networks NetScreen-200 Series is one of the most versatile pair of security appliances available today. They easily integrate and secure many different network environments, including medium and large enterprise offices, e-business sites, data centers, and carrier infrastructure. Complete with either four or eight auto-sensing 10/100 Base-T Ethernet ports, the NetScreen-200 Series performs firewall functions at wire speed (400 Mbps on the NetScreen-204 and 800 Mbps on the NetScreen-208). Even the most computationally intense applications, such as 3DES and AES encryption, are performed at speeds greater than 200 Mbps.

	Juniper Networks NetScreen-204 ⁽¹⁾	Juniper Networks NetScreen-208 ⁽¹⁾
Maximum Performance and Capacity⁽²⁾		
Firewall performance	400 Mbps	550 Mbps
3DES performance	200 Mbps	200 Mbps
Deep Inspection performance	180 Mbps	180 Mbps
Concurrent sessions	128,000	128,000
New sessions/second	9,000	9,000
Policies	4,000	4,000
Interfaces	4 10/100 Base-T	8 10/100 Base-T

	Juniper Networks NetScreen-200 Series ⁽¹⁾
Mode of Operation	
Layer 2 mode (transparent mode) ⁽³⁾	Yes
Layer 3 mode (route and/or NAT mode)	Yes
NAT (Network Address Translation)	Yes
PAT (Port Address Translation)	Yes
Policy-based NAT	Yes
Virtual IP	4
Mapped IP	4,000
Users supported	Unrestricted

	Juniper Networks NetScreen-200 Series ⁽¹⁾
Firewall	
Number of network attacks detected	31
Network attack detection	Yes
DoS and DDoS protections	Yes
TCP reassembly for fragmented packet protection	Yes
Malformed packet protections	Yes
Deep Inspection firewall	Yes
Protocol anomaly	Yes
Stateful protocol signatures	Yes
Protocols supported	HTTP, FTP, SMTP, POP, IMAP, DNS
Number of application attacks detected w/DI	over 250
Content Inspection	Yes
External antivirus (Trend Micro)	Yes
Embedded antivirus (Trend Micro)	No
Malicious URL filtering	up to 48 URLs
External URL filtering (Websense)	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
VPN	
Concurrent VPN tunnels	up to 1,000
Tunnel interfaces	up to 256
DES (56-bit), 3DES (168-bit) and AES encryption	Yes
MD-5 and SHA-1 authentication	Yes
Manual Key, IKE, PKI (X.509)	Yes
Perfect forward secrecy (DH Groups)	1,2,5
Prevent replay attack	Yes
Remote access VPN	Yes
L2TP within IPSec	Yes
IPSec NAT Traversal	Yes
Redundant VPN gateways	Yes
VPN tunnel monitor	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
Firewall and VPN User Authentication	
Built-in (internal) database - user limit	up to 1,500
3rd Party user authentication	RADIUS, RSA SecurID, and LDAP
XAUTH VPN authentication	Yes
Web-based authentication	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
System Management	
WebUI (HTTP and HTTPS)	Yes
Command Line Interface (console)	Yes
Command Line Interface (telnet)	Yes
Command Line Interface (SSH)	Yes, v1.5 and v2.0 compatible
NetScreen-Security Manager	Yes
All management via VPN tunnel on any interface	Yes
SNMP Full Custom MIB	Yes
Rapid deployment	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
Logging/Monitoring	
Syslog (multiple servers)	External, up to 4 servers
E-mail (2 addresses)	Yes
NetIQ WebTrends	External
SNMP (v2)	Yes
Standard and custom MIB	Yes
Traceroute	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
Virtualization	
Custom security zones	8, 4 on NetScreen-204
Virtual routers (VRs)	2
VLANs supported	32
Virtualization key	Optional upgrade: adds 10 security zones, 5 VRs, and 32 VLANs

	Juniper Networks NetScreen-200 Series ⁽¹⁾
Routing	
OSPF/BGP Dynamic routing	2 instances each
RIPv2 Dynamic routing	2 instances
Static routes	4096
Source-based routing	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
High Availability (HA)	
Active/Active	Yes
Active/Passive	Yes
Redundant Interfaces	Yes
Configuration synchronization	Yes
Session synchronization for firewall and VPN	Yes
Session failover for routing change	Yes
Device failure detection	Yes
Link failure detection	Yes
Authentication for new HA members	Yes
Encryption of HA traffic	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
IP Address Assignment	
Static	Yes
DHCP, PPPoE client	Yes
Internal DHCP server	Yes
DHCP Relay	Yes

	Juniper Networks NetScreen-200 Series ⁽¹⁾
PKI Support	
PKI Certificate requests (PKCS 7 and PKCS 10)	Yes
Automated certificate enrollment (SCEP)	Yes
Online Certificate Status Protocol (OCSP)	Yes
Certificate Authorities Supported	
Verisign CA	Yes
Entrust CA	Yes
Microsoft CA	Yes
RSA Keon CA	Yes
iPlanet (Netscape) CA	Yes
Baltimore CA	Yes
DOD PKI CA	Yes

Juniper Networks NetScreen-200 Series⁽¹⁾

Administration

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

Traffic Management

Guaranteed bandwidth	Yes
Maximum bandwidth	Yes
Priority-bandwidth utilization	Yes
DiffServ stamp	Yes

External Flash

CompactFlash™	Supports 96, 128 or 512 MB Industrial Grade SanDisk
Event logs and alarms	Yes
System config script	Yes
ScreenOS software	Yes

Dimensions and Power

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

Licensing Options: The NetScreen-204 and NetScreen-208 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-204 Baseline	NetScreen-208 Baseline
Sessions	64,000	64,000
Concurrent VPN tunnels	500	500
Deep Inspection Firewall	N/A	N/A
VLANs	0*	0*
OSPF/BGP	N/A	N/A
High Availability (HA)	Active/Passive	Active/Passive
NetScreen Security Manager	Future support	Future support

*NetScreen-204/208 Baseline can be upgraded to include 32 VLANs, 5 additional virtual routers, and 10 additional security zones with purchase of an additional Virtualization Key.

Certifications

Safety Certifications

UL, CUL, CSA, CB, NEBS Level 3 (NetScreen-208 with DC power supply)

EMC Certifications

FCC class A, BSMI, CE class A, C-Tick, VCCI class A

Environment

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-204: 6.8 years, NetScreen-208: 6.5 years

Security Certifications (Advanced models only)

Common Criteria: EAL4 and EAL4 +
 FIPS 140-2: Level 2
 ICSA Firewall and VPN

Ordering Information

Product		Part Number
Juniper Networks NetScreen-208 w/ AC power supply		
NetScreen-208	US power cord	NS-208-001
NetScreen-208	UK power cord	NS-208-003
NetScreen-208	European power cord	NS-208-005
NetScreen-208	Japanese power cord	NS-208-007
Juniper Networks NetScreen-208 w/ DC power supply		
NetScreen-208	DC power	NS-208-001-DC
Juniper Networks NetScreen-204 w/ AC power supply		
NetScreen-204	US power cord	NS-204-001
NetScreen-204	UK power cord	NS-204-003
NetScreen-204	European power cord	NS-204-005
NetScreen-204	Japanese power cord	NS-204-007
Juniper Networks NetScreen-204 w/ DC power supply		
NetScreen-204	DC power	NS-204-001-DC

Juniper Networks NetScreen-200 Series Virtualization

NetScreen-200 Virtualization Key NS-200-VIRT
 Virtualization Key adds 32 VLANs, 5 additional virtual routers, and 10 additional security zones. Only available with NetScreen ScreenOS 4.0.2 and later.

Baseline Products

NetScreen-208 Baseline	US power cord	NS-208B-001
NetScreen-208 Baseline	UK power cord	NS-208B-003
NetScreen-208 Baseline	European power cord	NS-208B-005
NetScreen-208 Baseline	Japanese power cord	NS-208B-007
NetScreen-204 Baseline	US power cord	NS-204B-001
NetScreen-204 Baseline	UK power cord	NS-204B-003
NetScreen-204 Baseline	European power cord	NS-204B-005
NetScreen-204 Baseline	Japanese power cord	NS-204B-007

- (1) Performance, capacity and features listed are based upon the Advanced feature set running ScreenOS 5.0.0 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, Active/Active HA, and IP address assignment.



1194 North Mathilda Avenue Sunnyvale, CA 94089 USA
 Phone: 888-JUNIPER (888-586-4737) or 408-745-2000
 Fax: 408-745-2100

Copyright © 2004 Juniper Networks, Inc. All rights reserved.

Juniper Networks, the Juniper Networks logo, NetScreen, NetScreen Technologies, GigaScreen, and the NetScreen logo are registered trademarks of Juniper Networks, Inc. NetScreen-5GT, NetScreen-5XP, NetScreen-5XT, NetScreen-25, NetScreen-50, NetScreen-100, NetScreen-204, NetScreen-208, NetScreen-500, NetScreen-5200, NetScreen-5400, NetScreen-Global PRO, NetScreen-Global PRO Express, NetScreen-Remote Security Client, NetScreen-Remote VPN Client, NetScreen-IDP 10, NetScreen-IDP 100, NetScreen-IDP 500, GigaScreen ASIC, GigaScreen-II ASIC, and NetScreen ScreenOS are trademarks of Juniper Networks, Inc. All other trademarks and registered trademarks are the property of their respective companies.

Part Number: 110004-001 Apr 2004