



Feature	PA-5250 	PA-5220 
<h2>Performance</h2> <p><i>*1. Firewall throughput measured with App-ID and User-ID features enabled utilizing AppMix transactions. 2. Threat prevention throughput measured with App-ID, User-ID, IPS, antivirus and anti-spyware features enabled utilizing AppMix transactions. 3. New sessions per second measured with 1 byte HTTP transactions. Additionally, for VM models, please refer to hypervisor, cloud specific data sheet for associated performance.</i></p>		
App-ID firewall throughput	40 Gbps	20 Gbps
Threat prevention throughput	21 Gbps	8.9 Gbps
IPSec VPN throughput	18 Gbps	10 Gbps
Connections per second	297,000	133,000
<h2>Sessions</h2>		
Max sessions (IPv4 or IPv6)	8,000,000	4,000,000
<h2>Policies</h2>		
Security rules	65,000	30,000
Security rule schedules	256	256
NAT rules	8,000	6,000
Decryption rules	5,000	3,500
App override rules	4,000	3,500
Tunnel content inspection rules	8,500	2,500
SD-WAN rules	500	300
Policy based forwarding rules	2,000	2,000
Captive portal rules	8,000	8,000
DoS protection rules	2,000	2,000
<h2>Security Zones</h2>		
Max security zones	17,000	4,000
<h2>Objects (addresses and services)</h2>		
Address objects	160,000	80,000
Address groups	80,000	40,000

Members per address group	2,500	2,500
Service objects	12,000	8,000
Service groups	6,000	4,000
Members per service group	2,500	2,500
FQDN address objects	6,144	6,144
Max DAG IP addresses <i>*System wide capacity</i>	500,000	500,000
Tags per IP address	32	32
<b>Security Profiles</b>		
Security profiles	750	750
<b>App-ID</b>		
Custom App-ID signatures	6,000	6,000
Shared custom App-IDs	512	512
Custom App-IDs (virtual system specific)	6,416	6,416
<b>User-ID</b>		
User-IP mappings (management plane)	512,000	512,000
User-IP mappings (data plane)	512,000	512,000
Active and unique groups used in policy <i>*Aggregate of LDAP groups, XML API Groups and Dynamic User Groups</i>	10,000	10,000
Number of User-ID agents	100	100
Monitored servers for User-ID	100	100
Terminal server agents	2,500	2,500
Tags per User <i>*Only valid for PAN-OS 9.1 and above</i>	32	32
<b>SSL Decryption</b>		
Max SSL inbound certificates	1,200	600
SSL certificate cache (forward proxy)	24,000	16,000
Max concurrent decryption sessions	800,000	400,000
SSL Port Mirror	Yes	Yes
SSL Decryption Broker	Yes	Yes
HSM Supported	Yes	Yes
<b>URL Filtering</b>		
Total entries for allow list, block list and custom categories	100,000	100,000
Max custom categories	2,849	2,849

Max custom categories (virtual system specific)	500	500
Dataplane cache size for URL filtering	250,000	250,000
Management plane dynamic cache size	600,000	600,000

## EDL

Max number of custom lists	30	30
Max number of IPs per system	150,000	150,000
Max number of DNS Domains per system	4,000,000	4,000,000
Max number of URL per system	250,000	250,000
Shortest check interval (min)	5	5

## Interfaces

Mgmt - out-of-band	10/100/1000 , RJ45 console	10/100/1000 , RJ45 console
Mgmt - 10/100/1000 high availability	NA	NA
Mgmt - 40Gbps high availability	1	1
Mgmt - 10Gbps high availability	NA	NA
Traffic - 10/100/1000	NA	NA
Traffic - 100/1000/10000	4	4
Traffic - 1Gbps SFP	0/16	0/16
Traffic - 10Gbps SFP+	0/16	0/16
Traffic - 40Gbps QSFP	4x40/100	4X40
802.1q tags per device	4,094	4,094
802.1q tags per physical interface	4,094	4,094
Max interfaces (logical and physical)	4,096	4,096
Maximum aggregate interfaces	8	8
Maximum SD-WAN virtual interfaces	1,500	1,500

## Virtual Routers

Virtual routers	125	20
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## Virtual Wires

Virtual wires	2,048	2,048
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## Virtual Systems

Base virtual systems	25	10
Max virtual systems	125	20

*\*Additional licenses are required for virtual system capacities above the base virtual systems capacity*

## Routing

IPv4 forwarding table size <i>*Entries shared across virtual routers</i>	100,000	100,000
IPv6 forwarding table size <i>*Entries shared across virtual routers</i>	100,000	100,000
System total forwarding table size	200,000	200,000
Max route maps per virtual router	50	50
Max routing peers (protocol dependent)	1,000	1,000
Static entries - DNS proxy	1,024	1,024
Bidirectional Forwarding Detection (BFD) Sessions	1,024	1,024

## L2 Forwarding

ARP table size per device	128,000	128,000
IPv6 neighbor table size	128,000	128,000
MAC table size per device	128,000	128,000
Max ARP entries per broadcast domain	128,000	128,000
Max MAC entries per broadcast domain	128,000	128,000

## NAT

Total NAT rule capacity	8,000	6,000
Max NAT rules (static) <i>*Configuring static NAT rules to full capacity requires that no other NAT rule types are used.</i>	8,000	6,000
Max NAT rules (DIP) <i>*Configuring DIP NAT rules to full capacity requires that no other NAT rule types are used.</i>	8,000	4,000
Max NAT rules (DIPP)	6,000	4,000
Max translated IPs (DIP)	160,000	64,000
Max translated IPs (DIPP) <i>*DIPP translated IP capacity is proportional to the DIPP pool oversubscription value. The capacity shown here is based on an oversubscription value of 1x.</i>	6,000	4,000
Default DIPP pool oversubscription <i>*Source IP and source port reuse across concurrent sessions</i>	8	8

## Address Assignment

DHCP servers	500	500
DHCP relays <i>*Maximum capacity represents total DHCP servers and DHCP relays combined</i>	4,096	2,048

Max number of assigned addresses	64,000	64,000
<b>High Availability</b>		
Devices supported	2	2
Max virtual addresses	4,096	4,096
<b>QoS</b>		
Number of QoS policies	4,000	4,000
Physical interfaces supporting QoS	12	12
Clear text nodes per physical interface	63	63
DSCP marking by policy	Yes	Yes
Subinterfaces supported	2,048	2,048
<b>IPSec VPN</b>		
Max IKE Peers	4,000	3,000
Site to site (with proxy id)	12,000	10,000
SD-WAN IPSec tunnels	4,000	3,000
<b>GlobalProtect Client VPN</b>		
Max tunnels (SSL, IPSec, and IKE with XAUTH)	30,000	15,000
<b>GlobalProtect Clientless VPN</b>		
Max SSL tunnels	5,000	2,500
<b>Multicast</b>		
Replication (egress interfaces)	2,000	1,000
Routes	4,000	4,000
<b>Product Notes</b>		
End-of-sale	NA	NA