



Platform Specifications and Features Summary

	PA-7080 System ²	PA-7050 System ²	PA-5260	PA-5250	PA-5220
Performance and Capacities ¹					
Firewall throughput (App-ID)	200 Gbps	120 Gbps	72.2 Gbps	35.9 Gbps	18.5 Gbps
Threat prevention throughput	100 Gbps	60 Gbps	30 Gbps	20.3 Gbps	9.2 Gbps
IPSec VPN throughput	80 Gbps	48 Gbps	21 Gbps	14 Gbps	5 Gbps
New sessions per second	1,200,000	720,000	458,000	348,000	169,000
Max sessions	40,000,000/80,000,000 ³	24,000,000/48,000,000 ³	32,000,000	8,000,000	4,000,000
Virtual systems (base/max ²)	25/225	25/225	25/225	25/125	10/20
Hardware Specifications					
Interfaces supported NPC option 1 ⁴	Up to (20) QSFP+, (120) SFP+	Up to (12) QSFP+, (72) SFP+	(4) 100/1000/10G Cu, (16) 1G/10G SFP/SFP+, (4) 40G/100G QSFP28	PA-5250	PA-5220
Interfaces supported NPC option 2 ⁴	Up to (120) 10/100/1000, (80) SFP, (40) SFP+	Up to (72) 10/100/1000, (48) SFP, (24) SFP+	(4) 100/1000/10G Cu, (16) 1G/10G SFP/SFP+, (4) 40G/100G QSFP28		(4) 100/1000/10G Cu, (16) 1G/10G SFP/SFP+, (4) 40G QSFP+
Management I/O	(2) 10/100/1000, (2) QSFP+ high availability, (1) RJ45 console management, (1) RJ45 console	(2) 10/100/1000, (2) QSFP+ high availability, (1) 10/100/1000 out-of-band management, (1) RJ45 console	(2) 10/100/1000 Cu, (1) 10/100/1000 out-of-band management, (1) RJ45 console	(1) 40G/100G QSFP28 HA	(1) RJ45 console
Rack mountable?	19U, 19" standard rack	9U, 19" standard rack or 14U, 19" standard rack with optional Airduct kit	3U, 19" standard rack		
Power supply	4x2500W AC (2400W / 2700) expandable to 8	4x2500W AC (2400W / 2700W)	2x1200W AC or DC (1:1 Fully Redundant)		
Redundant power supply?	Yes	Yes	Yes		
Disk drives	2TB RAID1		System: 240GB SSD, RAID1, Log: 2TB HDD, RAID1		
Hot swap fans	Yes	Yes	Yes		

	PA-5060	PA-5050	PA-5020	PA-3060	PA-3050	PA-3020
Performance and Capacities ¹						
Firewall throughput (App-ID)	20 Gbps	10 Gbps	5 Gbps	4 Gbps	4 Gbps	2 Gbps
Threat prevention throughput	10 Gbps	5 Gbps	2 Gbps	2 Gbps	2 Gbps	1 Gbps
IPSec VPN throughput	4 Gbps	4 Gbps	2 Gbps	500 Mbps	500 Mbps	500 Mbps
New sessions per second	120,000	120,000	120,000	50,000	50,000	50,000
Max sessions	4,000,000	2,000,000	1,000,000	500,000	500,000	250,000
Virtual systems (base/max ²)	25/225	25/125	10/20	1/6	1/6	1/6
Hardware Specifications						
Interfaces supported ⁴	(12) 10/100/1000, (8) SFP, (4) 10 SFP+	PA-5050	PA-5020	PA-3060	PA-3050	PA-3020
Management I/O	(2) 10/100/1000 high availability, (1) 10/100/1000 out-of-band management, (1) RJ45 console	(2) 10/100/1000, (8) SFP	(12) 10/100/1000, (8) SFP	(8) 10/100/1000, (8) SFP, (2) 10 SFP+	(12) 10/100/1000, (8) SFP	(12) 10/100/1000, (8) SFP
Rack mountable?	2U, 19" standard rack	2U, 19" standard rack console		1.5U, 19" standard rack console	1U, 19" standard rack console	
Power supply	Redundant 450W AC or DC	Redundant 450W AC or DC		Redundant 400W AC	250W AC	
Redundant power supply?	Yes	Yes		Yes	No	
Disk drives	120GB or 240GB SSD, RAID Optional				120GB SSD	
Hot swap fans	Yes	Yes			No	

	PA-850	PA-820	PA-500	PA-220	PA-200
Performance and Capacities ¹					
Firewall throughput (App-ID)	1.9 Gbps	940 Mbps	250 Mbps	500 Mbps	100 Mbps
Threat prevention throughput	780 Mbps	610 Mbps	100 Mbps	150 Mbps	50 Mbps
IPSec VPN throughput	500 Mbps	400 Mbps	50 Mbps	100 Mbps	50 Mbps
New sessions per second	9,500	8,300	7,500	4,200	1,000
Max sessions	192,000	128,000	64,000	64,000	64,000
Virtual systems (base)	1	1	N/A	1	N/A
Hardware Specifications					
Interfaces supported ⁴	(4) 10/100/1000, (4/8) SFP, (0/4) 10 SFP+	PA-820	PA-500	PA-220	PA-200
Management I/O	(1) 10/100/1000 out-of-band management, (2) 10/100/1000 high availability, (1) RJ-45 console, (1) USB, (1) Micro USB	(4) 10/100/1000, (8) SFP	(8) 10/100/1000	(8) 10/100/1000	(4) 10/100/1000
Rack mountable?	1U, 19" standard rack	1U, 19" standard rack	1U, 19" standard rack	1.62" H X 6.29" D X 8.07" W	1.75" H X 7" D X 9.25" W
Power supply	Two 500W AC. One is redundant.	200W	180W	Dual redundant 40W	40W
Redundant power supply?	Yes	No	No	Yes (Optional)	No
Disk drives	240GB SSD		160GB	32GB EMMC	16GB SSD
Hot swap fans	No	No	No	No	No



Platform Specifications and Features Summary

Performance and Capacities ¹	VM-50	VM-100/VM-200	VM-300/VM-1000HV	VM-500	VM-700
Firewall throughput (App-ID)	200 Mbps	2 Gbps	4 Gbps	8 Gbps	16 Gbps
Threat prevention throughput	100 Mbps	1 Gbps	2 Gbps	4 Gbps	8 Gbps
IP-Sec VPN throughput			In Process ⁵		
New sessions per second ¹	3,000	15,000	30,000	60,000	120,000
CPU Configurations Supported	2 ⁶	2	2,4	2,4,8	2,4,8,16
Dedicated Memory (Minimum)	4.5GB	6.5GB	9GB	16GB	56GB
Dedicated Disk drive capacity (Min)	32GB ⁷	60GB	60GB	60GB	60GB
Supported Environments					
VMware ESXi 5, 1/5.5/6.0 (Standalone)	Yes				
KVM on CentOS/RHEL and Ubuntu	Yes				
NSX Manager 6.0/6.1/6.2	Yes				
Citrix Xen Server on SDX 10.1	Yes				
Amazon AWS	Yes				
Microsoft Azure	Yes				

(1) Performance and capacities are measured under ideal testing conditions with PAN-OS 8.0. For VM-Series, they may vary based on underlying virtualization infrastructure (hypervisor/cloud). Refer to the individual datasheets for detailed performance and testing information. (2) Adding virtual systems to the base quantity requires a separately purchased license. (3) Max session capacity for PA-7000 NPCs with standard memory/extended memory. (4) Optical/Copper transceivers are sold separately. (5) IPsec throughput will be published upon completion of the test suite. (6) CPU oversubscription supported with up to 5 instances running on a 2 CPU configuration. (7) 60GB required at initial boot. VM-Series will use 32GB after license activation.

Key Features	Supported Across All Platforms
Firewall	
Applications Identified (App-IDs)	2,200+
Customizable App-IDs	✓
Policy-based control by user, group or IP address, application, application category, subcategory, technology, risk factor or characteristic	✓
Per policy SSL decryption & inspection (inbound and outbound)/Per policy SSH control (inbound and outbound)	✓
User control: Active Directory, LDAP, eDirectory, Exchange, Citrix and Microsoft Terminal Services, XML API (User-ID)	✓
Threat Prevention (Subscription Required)	
Stream-based protection against viruses (including those embedded in HTML, JavaScript, PDF and compressed), spyware, worms	✓
Drive-by download protection and behavioral botnet protection	✓
Modern Malware Protection (WildFire Subscription Required)	
Dynamic analysis and detection of unknown malware within PE, PDF, Java, Android APK, Adobe Flash, all Microsoft Office file types and webpages.	✓
Automated signature generation and delivery for discovered malware. Inline control of malware infection and command/control traffic	✓
URL Filtering (Subscription Required)	
On-box customizable URL filtering database. Customizable categories, allow, block lists and block pages	✓
File and Data Filtering	
Bidirectional control over the unauthorized transfer of file types and Social Security Numbers, Credit Card Numbers, custom data patterns	✓
CoS	
Policy-based traffic shaping (priority, guaranteed, maximum) per application, per user, per tunnel and more	✓
VPN Connectivity	
GlobalProtect (IPSec/SSL VPN)	✓
IP-Sec VPN (Site-to-Site)	✓
Mobile Security (GlobalProtect Mobile Security Manager, Gateway & App subscription or licenses required)	
Monitor and report device state for policy enforcement, such as jailbroken devices. Manage device settings	✓
Deliver mobile threat prevention and policy enforcement based on apps, users, content, device and device state	✓
Networking	
Dynamic routing (BGP, OSPF, RIP), 802.1Q VLAN tagging (layer 2, layer 3), Multicast	✓
Tap mode, virtual wire, layer 2, and layer 3	✓
Network address translation (NAT), DHCP server/ DHCP relay (up to 3 servers)	✓
IPv6 L2, L3, tap, virtual wire (transparent mode), App-ID, User-ID, Content-ID, WildFire and SSL decryption	✓
High Availability	
Active/Active, Active/Passive, Configuration and session synchronization	✓ (PA-200 and VM-Series support HA Lite only)
Interface and IP tracking, Link and path failure monitoring	✓
Management and Visibility Tools	
Integrated web interface, CLI and centralized management (Panorama), Graphical summary of applications, URL categories, threats and data (ACC)	✓
View, filter, export traffic, threat, URL, and data filtering logs, Fully customizable reporting	✓
XML-based REST API	✓