Palo Alto Networks Platform Specifications and Features Summary

Performance and Capacities[1]	PA-7080 System[2]	PA-7050 System[2]	PA-5280	PA-5260	PA-5250	PA-5220
Firewall throughput (App-ID)	200 Gbps	120 Gbps	68 Gbps	68 Gbps	39 Gbps	18 Gbps
Threat Prevention throughput	100 Gbps	60 Gbps	30 Gbps	30 Gbps	20 Gbps	9 Gbps
IPsec VPN throughput	80 Gbps	48 Gbps	24 Gbps	24 Gbps	16 Gbps	8 Gbps
New sessions per second	1,200,000	720,000	462,000	462,000	348,000	171,000
Max sessions	40,000,000/80,000,000[3]	24,000,000/48,000,000[3]	64,000,000	32,000,000	8,000,000	4,000,000
Virtual systems (base/max[2])	25/225	25/225	25/225	25/225	25/125	10/20
Hardware Specifications	**PA-7080 System**	**PA-7050 System**	**PA-5280**	**PA-5260**	**PA-5250**	**PA-5220**
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			(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) 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) 40G QSFP+ HA
Rack mountable?	19U, 19" standard rack	9U, 19" standard rack or 14U, 19" standard rack with optional PAN-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			
Disk drives	2TB RAID1		System: 240GB SSD, RAID1. Log: 2TB HDD, RAID1			
Hot swap fans	Yes		Yes			

Performance and Capacities[1]	PA-5060	PA-5050	PA-5020	PA-3260	PA-3250	PA-3220	PA-3060	PA-3050	PA-3020
Firewall throughput (App-ID)	20 Gbps	10 Gbps	5 Gbps	8.8 Gbps	6.3 Gbps	5 Gbps	4 Gbps	4 Gbps	2 Gbps
Threat Prevention throughput	10 Gbps	5 Gbps	2 Gbps	4.7 Gbps	3 Gbps	2.2 Gbps	2 Gbps	2 Gbps	1 Gbps
IPsec VPN throughput	4 Gbps	4 Gbps	2 Gbps	4.8 Gbps	3.2 Gbps	2.5 Gbps	500 Mbps	500 Mbps	500 Mbps
New sessions per second	120,000	120,000	120,000	135,000	94,000	58,000	50,000	50,000	50,000
Max sessions	4,000,000	2,000,000	1,000,000	3,000,000	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	1/6	1/6	1/6
Hardware Specifications	**PA-5060**	**PA-5050**	**PA-5020**	**PA-3260**	**PA-3250**	**PA-3220**	**PA-3060**	**PA-3050**	**PA-3020**
Interfaces supported[4]	(12) 10/100/1000, (8) SFP, (4) 10 SFP+		12) 10/100/1000, (8) SFP	(12) 10/100/1000, (8) 1G/10G SFP/SFP+, (4) 40G QSFP+	(12) 10/100/1000, (8) 1G/10G SFP/SFP+	(12) 10/100/1000, (4) 1G SFP, (4) 1G/10G SFP/SFP+	(8) 10/100/1000, (8) SFP, (2) 10 SFP+	(12) 10/100/1000, (8) SFP	
Management I/O	(2) 10/100/1000 High availability, (1) 10/100/1000 Out-of-band management, (1) RJ45 console			(1) 10/100/1000 out-of-band management port, (2) 10/100/1000 high availability, (1) 10G SFP+ high availability, (1) RJ-45 console port, (1) Micro USB			1) 10/100/1000 Out-of-band management, (2) 10/100/1000 High availability, (1) RJ-45 console		
Rack mountable?	2U, 19" Standard rack			2U, 19" standard rack (3.5" H x 20.53" D x 17.34" W)			1.5U, 19" Standard rack	1U, 19" Standard rack	
Power supply	Redundant 450W AC or DC			650-watt AC or DC (180/240)			Redundant 400W AC	250W AC	
Redundant power supply?	Yes			Yes			Yes	No	
Disk drives	120GB or 240GB SSD, RAID optional			240GB SSD			120GB SSD		
Hot swap fans	Yes			Yes			No		

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Performance and Capacities[1]	PA-850	PA-820	PA-500	PA-220	PA-200
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	**PA-850**	**PA-820**	**PA-500**	**PA-220**	**PA-200**
Interfaces supported[4]	(4) 10/100/1000, (4/8) SFP, (0/4) 10 SFP+	(4) 10/100/1000, (8) SFP	(8) 10/100/1000	(8) 10/100/1000	(4) 10/100/1000
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 console		(1) 10/100/1000 out-of-band management, (1) RJ-45 Console	(1) 10/100/1000 Out-of-band management, (1) RJ-45 Console, (1) USB, (1) Micro USB console	(1) 10/100/1000 Out-of-band management, (1) RJ-45 Console
Rack mountable?	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

Performance and Capacities[1]	VM-50/VM-50 Lite	VM-100/VM-200	VM-300/VM-1000-HV	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
IPsec VPN throughput	100 Mbps	1 Gbps	1.8 Gbps	4 Gbps	6 Gbps
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)	4.0[8]/4.5GB	6.5GB	9GB	16GB	56GB
Dedicated disk drive capacity (minimum)	32GB[7]	60GB	60GB	60GB	60GB
VM-Series Supported Environments					
° VMware ESXi 5.1/5.5/6.0 (stand-alone) ° KVM on CentOS/RHEL and Ubuntu ° Microsoft Hyper-V (Windows 2012 R2 server)	Yes				
NSX Manager 6.0/6.1/6.2	No	Yes		Yes	No
Citrix Xen Server on SDX 10.1				No	
Amazon AWS		Yes (BYOL Only)	Yes (BYOL and Marketplace)	Yes (BYOL Only)	
Microsoft Azure					
Google Cloud					

(1) For VM-Series, performance and capacities 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. (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. (8) Supported with VM-50 Lite model only.

Palo Alto Networks Platform Specifications and Features Summary

Key Features	Supported Across All Platforms
Firewall	
Thousands of applications for visibility and control; ability to create custom applications; ability to manage unknown traffic based on policy	✓
User identification and control: VPNs, WLAN controllers, captive portal, proxies, Active Directory, eDirectory, Exchange, terminal services, syslog parsing, XML API	✓
Granular SSL decryption and inspection (inbound and outbound); per-policy SSH control (inbound and outbound)	✓
Networking: dynamic routing (RIP, OSPF, BGP, multiprotocol BGP), DHCP, DNS, NAT, route redistribution, ECMP, LLDP, BFD, tunnel content inspection	✓
QoS: policy-based traffic shaping (priority, guaranteed, maximum) per application, per user, per tunnel, based on DSCP classification	✓
Virtual systems: logical, separately managed firewall instances within a single physical firewall, with each virtual system's traffic kept separate	✓
Zone-based network segmentation and zone protection; DoS protection against flooding of new sessions	✓
Threat Prevention (subscription required)	
In-line malware prevention is automatically enforced through our payload-based signatures, which are updated daily	✓
Vulnerability-based protections block exploits and evasive techniques on network and application layers, including port scans, buffer overflows, packet fragmentation and obfuscation	✓
Command-and-control (C2) activity is stopped from exfiltrating data or delivering secondary malware payloads, while infected hosts are identified through DNS sinkholing	✓
URL Filtering (subscription required)	
Automatically prevent web-based attacks, including phishing links in emails, phishing sites, HTTP-based command-and-control, and pages that carry exploit kits	✓
Stops in-process credential phishing	✓
Custom URL categories, alerts and notification pages	✓
WildFire malware analysis (subscription required)	
Detects zero-day malware and exploits with layered, complimentary analysis techniquess	✓
Automates prevention within as few as five minutes across the network, endpoint and cloud	✓
Takes advantage of community-based data for protection, including over 22,000 subscribers	✓
AutoFocus threat intelligence (subscription required)	
Gain context and classification for attacks including malware family, adversary, and campaign to speed prioritization and response efforts	✓
Make security teams more effective with rich globally correlated threat analysis sourced from WildFire	✓
Use third party threat intelligence for automated prevention	✓
Magnifier behavioral analytics (subscription required)	
Automated profiling of user and device behavior through analysis of rich network, endpoint and cloud data stored in Palo Alto Networks Logging Service	✓
Accurate detection of stealthy network threats by identifying behavioral anomalies indicative of command and control, lateral movement, data exfiltration	✓
Integrated endpoint analysis to confirm attacks and accelerate investigations	✓
File and data filtering	
Bidirectional control over the unauthorized transfer of file types and Social Security numbers, credit card numbers and custom data patterns	✓
GlobalProtect mobile security (subscription required)	
Remote access VPN (SSL, IPSec, clientless) and mobile threat prevention and policy enforcement based on apps, users, content, device and device state	✓
BYOD: app-level VPN for user privacy	✓
Panorama management, logging and reporting (subscription required for managing multiple firewalls)	
Intuitive policy control with applications, users, threats, advanced malware protection, URL, file types, data patterns – all in the same policy	✓
Actionable insight into traffic and threats with Application Command Center (ACC), fully customizable reporting	✓
Aggregated logging and event correlation	✓
Consistent management of all hardware and all VM-Series, role-based access control, logical and hierarchical device groups, and templates	✓
GUI, CLI, XML-based REST API	✓