

**Palo Alto Networks ML-Powered Next-Generation Firewall Specifications and Features Summary**

**Table 1: Firewall Performance and Capacities**

Performance and Capacities	PA-5220	PA-5250	PA-5260	PA-5280	PA-5410	PA-5420	PA-5430	PA-5440	PA-5450 <sup>B</sup>	PA-7050 <sup>A</sup>	PA-7080 <sup>A</sup>	
Firewall throughput (App-ID, appmix)	15.6 Gbps	36.7 Gbps	55.2 Gbps	55.2 Gbps	43.5 Gbps	56 Gbps	61 Gbps	72 Gbps	200 Gbps	350 Gbps	595 Gbps	
Threat Prevention throughput (appmix)	8.8 Gbps	21.4 Gbps	31.4 Gbps	31.4 Gbps	26.7 Gbps	32 Gbps	40 Gbps	52 Gbps	124 Gbps	184 Gbps	312.8 Gbps	
IPsec VPN throughput	9.5 Gbps	18.4 Gbps	26.3 Gbps	26.3 Gbps	21 Gbps	28.7 Gbps	42 Gbps	58 Gbps	85 Gbps <sup>C</sup>	190 Gbps	312.9 Gbps	
New sessions per second	150,000	368,000	500,000	500,000	270,000	370,000	380,000	390,000	3,600,000 <sup>C</sup>	4,000,000	6,000,000	
Maximum sessions	4,000,000	8,000,000	32,000,000	64,000,000	3,600,000	5,000,000	7,200,000	12,000,000	100,000,000 <sup>C</sup>	245,000,000	416,000,000	
Virtual systems (base/max <sup>D</sup> )	10/20	25/125	25/225		10/20	15/65	25/125	25/225		25/225		
Hardware Specifications	PA-5220	PA-5250	PA-5260	PA-5280	PA-5410	PA-5420	PA-5430	PA-5440	PA-5450	PA-7050	PA-7080	
Interfaces supported <sup>E</sup>	100/1000/10G Cu (4), 1G/10G SFP/SFP+ (16), 40G QSFP+ (4)	100/1000/10G Cu (4), 1G/10G SFP/SFP+ (16), 40G/100G QSFP28 (4)			1G/2.5G/5G/10G (8), 1G/10G SFP/SFP+ (12), 25G SFP28 (4), 40G/100G QSFP+/QSFP28 (4)				100/1000/10G Cu (up to 8), 1G/10G SFP/SFP+ (up to 24), 40G/100G QSFP28 (up to 4)	10/100/1000 (up to 72), SFP/SFP+ (up to 48), QSFP+/QSFP28 (up to 24)	10/100/1000 (up to 120), SFP/SFP+ (up to 80), QSFP+/QSFP28 (up to 40)	
Management I/O	10/100/1000 Cu (2), 10/100/1000 out-of-band management (1), RJ-45 console (1)			40G/100G QSFP28 HA (1)	1G SFP out-of-band management (1), 1G SFP HA (2), 40G QSFP+ HA (1), RJ-45 serial console (1), Micro USB serial console (1)				SFP/SFP+ MGT (2), SFP/SFP+ HA1 (2), HSCI HA2/HA3 QSFP+/QSFP28 (2), RJ-45 serial console (1), Micro USB serial console (1)	SFP/SFP+ MGT (2), SFP/SFP+ HA1 (2), HSCI HA2/HA3 QSFP+/QSFP28 (2), RJ-45 serial console (1), Micro USB serial console (1)		
	(1) 40G QSFP+ HA											
Size	3U, 19" standard rack (5.25" H x 20.5" D x 17.25" W)				2U, 19" standard rack (3.45" H x 22.5" D x 17.34" W)				5U, 19" standard rack (8.75" H x 30.25" D x 17.38" W)	9U, 19" standard rack (15.75" H x 23.75" D x 17.5" W) or 14U, 19" standard rack with optional PAN-AIR-DUCT kit (24.5" H x 23.75" D x 17.5" W)	19U, 19" standard rack (33.22" H x 24.66" D x 17.5" W)	
Power supply	1200 W AC or DC (1:1 fully redundant) (2)				1200 W AC or DC (1:1 fully redundant) (2)				2200 W AC or DC (2 expandable to 4)	2500 W AC (2400 W/2700 W) (4)	2500 W AC (2400 W/2700 W) (4 expandable to 8)	
Redundant power supply	Yes											
Disk drives	System: 240 GB SSD, RAID1   Log: 2 TB HDD, RAID1				480 GB SSD pair, system storage				System: 480 GB SSD, RAID1   Log: 4 TB SSD (optional)	240 GB SSD system drive, RAID1 (2)		
Hot-swappable fans	Yes											

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Table 1: Firewall Performance and Capacities (continued)

Performance and Capacities	PA-3220	PA-3250	PA-3260	PA-3410	PA-3420	PA-3430	PA-3440			
Firewall throughput (App-ID, appmix)	4.2 Gbps	5 Gbps	7.8 Gbps	11 Gbps	16.9 Gbps	20.5 Gbps	24 Gbps			
Threat Prevention throughput (appmix)	2.3 Gbps	2.7 Gbps	4.3 Gbps	5.6 Gbps	8.7 Gbps	10.5 Gbps	12.8 Gbps			
IPsec VPN throughput	2.4 Gbps	2.6 Gbps	4.4 Gbps	6.8 Gbps	9.9 Gbps	12.2 Gbps	14.5 Gbps			
New sessions per second	46,000	58,000	84,000	145,000	205,000	240,000	268,000			
Maximum sessions	1,000,000	2,000,000	2,200,000	1,400,000	2,000,000	2,500,000	3,000,000			
Virtual systems (base/max <sup>D</sup> )	1/6			1/11						
Hardware Specifications	PA-3220	PA-3250	PA-3260	PA-3410	PA-3420	PA-3430	PA-3440			
Interfaces supported <sup>E</sup>	10/100/1000 (12), 1G SFP (4), 1G/10G SFP/SFP+ (4)	10/100/1000 (12), 1G/10G SFP/SFP+ (8)	10/100/1000 (12), 1G/10G SFP/SFP+ (8), 40G QSFP+ (4)	1G/2.5G/5G/10G (12), 1G/10G SFP/SFP+ (10), 25G SFP28 (4)		1G/2.5G/5G/10G (12), 1G/10G SFP/SFP+ (10), 25G SFP28 (4), 40G/100G QSFP/QSFP28 (2)				
Management I/O	100/1000 out-of-band management port (1), 100/1000 high availability (2), 10G SFP+ high availability (1), RJ-45 console port (1), Micro USB (1)				10/100/1000 out-of-band management port (1), 10/100/1000 high availability (2), 10G SFP+ high availability (1), RJ-45 console port (1), Micro USB (1)					
Size	2U, 19" standard rack (3.5" H x 20.53" D x 17.34" W)			1U, 19" standard rack 14.15" x 17.15" x 1.70"						
Power supply	650 W AC or DC (180/240)			450W AC						
Redundant power supply	Yes			Yes						
Disk drives	240 GB SSD			480 GB SSD						
Hot-swappable fans	Yes			No						
Performance and Capacities	PA-410	PA-415	PA-440	PA-445	PA-450	PA-460	PA-820	PA-850	PA-1410	PA-1420
Firewall throughput (App-ID, appmix)	1.1 Gbps	1.2 Gbps	2.2 Gbps		2.9 Gbps	4.4 Gbps	1.5 Gbps	1.9 Gbps	6.8 Gbps	9.5 Gbps
Threat Prevention throughput (appmix)	680 Mbps	690 Mbps	1.0 Gbps		1.6 Gbps	2.4 Gbps	840 Mbps	1.0 Gbps	3.2 Gbps	4.8 Gbps
IPsec VPN throughput	920 Mbps		1.6 Gbps		2.2 Gbps	3.0 Gbps	1.4 Gbps	1.8 Gbps	4.6 Gbps	6.5 Gbps
New sessions per second	12,000		37,500		51,000	73,000	8,100	13,100	100,000	140,000
Maximum sessions	64,000		200,000		300,000	400,000	128,000	192,000	945,000	1,400,000
Virtual systems (base/max <sup>D</sup> )	1/1		1/2		1/5	1/5	1/1	1/1	1/6	1/6
Hardware Specifications	PA-410	PA-415	PA-440	PA-445	PA-450	PA-460	PA-820	PA-850	PA-1410	PA-1420
Interfaces supported <sup>E</sup>	10/100/1000 (7)	10/100/1000 (8), 1G SFP/RJ-45 Combo	10/100/1000 (8)	10/100/1000 (8), 1G SFP/RJ-45 Combo	10/100/1000 (8)		10/100/1000 (4), SFP (8)	10/100/1000 (4), 1G SFP (4), 1G/10G SFP/SFP+ (4)	10/100/1000 (8), 1/2.5/5G (4)/PoE, 1G SFP (6), 10G SFP+ (4)	10/100/1000 (4), 1/2.5/5G (4), 1/2.5/5G (4)/PoE, 1G SFP (2), 10G SFP+ (8)
Management I/O	10/100/1000 out-of-band management (1), RJ-45 console (1), USB (2)	1G SFP/RJ-45 combo management (1), RJ-45 console (1), USB (2), Micro USB console (1)	10/100/1000 out-of-band management (1), RJ-45 console (1), USB (2), Micro USB console (1)	1G SFP/RJ-45 combo management (1), RJ-45 console (1), USB (2), Micro USB console (1)	10/100/1000 out-of-band management (1), RJ-45 console (1), USB (2), Micro USB console (1)		10/100/1000 out-of-band management (1), 10/100/1000 high availability (2), RJ-45 console (1), USB (1), Micro USB console (1)		10/100/1000 out-of-band management (1), HSCI 10G high availability (1), RJ-45 console (1), USB (1), Micro USB console (1)	
Size	1.63" H x 6.42" D x 9.53" W	1.73" H x 13" D x 9" W	1.74" H x 8.83" D x 8.07" W	1.66" H x 13" D x 8.87" W	1.74" H x 8.83" D x 8.07" W		1U, 19" standard rack (1.75" H x 14" D x 17.125" W)	1U, 19" standard rack (1.75" H x 14.5" D x 17.125" W)	1U, 19" standard rack (1.70" H x 14.15" D x 17.15" W)	
Power supply	25 W	Dual redundant 150 W	Dual redundant 50 W	Dual redundant 150 W	Dual redundant 50 W		200 W	450 W AC (2; one is redundant)	450 W AC (2; one is redundant)	
Redundant power supply	No	Yes (optional)				No	Yes	Yes		
Disk drives	64 GB eMMC	128 GB eMMC		128 GB eMMC	128 GB eMMC		240 GB SSD		120 GB SSD	240 GB SSD
Hot-swappable fans	Fanless						No			

(A) Each result in this column is for an optimum combination of PA-7000-DPC-A and PA-7000-100G-NPC-A cards populated in all available slots. (B) All tests performed with 2 Networking Cards + 4 Data Processing Cards populated, unless otherwise noted. (C) This test performed with 1 Networking Card + 5 Data Processing Cards populated. (D) Adding virtual systems to the base quantity requires a separately purchased license. Adding virtual systems for PA-440, PA-445, PA-450 and PA-460 requires minimum PAN-OS 11.0. (E) Optical/Copper transceivers are sold separately.

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