

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

Table 1: Firewall Performance and Capacities

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

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Table 1: Firewall Performance and Capacities (continued)

Performance and Capacities	PA-3440	PA-3430	PA-3420	PA-3410	PA-3260	PA-3250	PA-3220			
Firewall throughput (App-ID, appmix)	24 Gbps	20.5 Gbps	16.9 Gbps	11 Gbps	7.8 Gbps	5 Gbps	4.2 Gbps			
Threat Prevention throughput (appmix)	12.8 Gbps	10.5 Gbps	8.7 Gbps	5.6 Gbps	4.3 Gbps	2.7 Gbps	2.3 Gbps			
IPsec VPN throughput	14.5 Gbps	12.2 Gbps	9.9 Gbps	6.8 Gbps	4.4 Gbps	2.6 Gbps	2.4 Gbps			
New sessions per second	268,000	240,000	205,000	145,000	84,000	58,000	46,000			
Maximum sessions	3,000,000	2,500,000	2,000,000	1,400,000	2,200,000	2,000,000	1,000,000			
Virtual systems (base/max ^D)	1/11				1/6					
Hardware Specifications	PA-3440	PA-3430	PA-3420	PA-3410	PA-3260	PA-3250	PA-3220			
Interfaces supported ^E	1G/2.5G/5G/10G (12), 1G/10G SFP/SFP+ (10), 25G SFP28 (4), 40G/100G QSFP/QSFP28 (2)		1G/2.5G/5G/10G (12), 1G/10G SFP/SFP+ (10), 25G SFP28 (4)		10/100/1000 (12), 1G/10G SFP/SFP+ (8), 40G QSFP+ (4)	10/100/1000 (12), 1G/10G SFP/SFP+ (8)	10/100/1000 (12), 1G SFP (4), 1G/10G SFP/SFP+ (4)			
Management I/O	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	1U, 19" standard rack 14.15" x 17.15" x 1.70"				2U, 19" standard rack (3.5" H x 20.53" D x 17.34" W)					
Power supply	450W AC				650 W AC or DC (180/240)					
Redundant power supply	Yes				Yes					
Disk drives	480 GB SSD				240 GB SSD					
Hot-swappable fans	No				Yes					
Performance and Capacities	PA-1420	PA-1410	PA-850	PA-820	PA-460	PA-450	PA-445	PA-440	PA-415	PA-410
Firewall throughput (App-ID, appmix)	9.5 Gbps	6.8 Gbps	1.9 Gbps	1.5 Gbps	4.4 Gbps	2.9 Gbps	2.2 Gbps		1.2 Gbps	1.1 Gbps
Threat Prevention throughput (appmix)	4.8 Gbps	3.2 Gbps	1.0 Gbps	840 Mbps	2.4 Gbps	1.6 Gbps	1.0 Gbps		690 Mbps	680 Mbps
IPsec VPN throughput	6.5 Gbps	4.6 Gbps	1.8 Gbps	1.4 Gbps	3.0 Gbps	2.2 Gbps	1.6 Gbps		920 Mbps	
New sessions per second	140,000	100,000	13,100	8,100	73,000	51,000	37,500		12,000	
Maximum sessions	1,400,000	945,000	192,000	128,000	400,000	300,000	200,000		64,000	
Virtual systems (base/max ^D)	1/6	1/6	1/1	1/1	1/5	1/5	1/2		1/1	
Hardware Specifications	PA-1420	PA-1410	PA-850	PA-820	PA-460	PA-450	PA-445	PA-440	PA-415	PA-410
Interfaces supported ^E	10/100/1000 (4), 1/2.5/5G (4), 1/2.5/5G (4)/PoE, 1G SFP (2), 10G SFP+ (8)	10/100/1000 (8), 1/2.5/5G (4)/PoE, 1G SFP (6), 10G SFP+ (4)	10/100/1000 (4), 1G SFP (4), 1G/10G SFP/SFP+ (4)	10/100/1000 (4), SFP (8)	10/100/1000 (8)		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 (7)
Management I/O	10/100/1000 out-of-band management (1), HSCI 10G high availability (1), RJ-45 console (1), USB (1), 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), RJ-45 console (1), USB (2), Micro USB console (1)		1G SFP/R-J45 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/R-J45 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)
Size	1U, 19" standard rack (1.70" H x 14.15" D x 17.15" W)		1U, 19" standard rack (1.75" H x 14.5" D x 17.125" W)	1U, 19" standard rack (1.75" H x 14" D x 17.125" 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	1.73" H x 13" D x 9" W	1.63" H x 6.42" D x 9.53" W
Power supply	450 W AC (2; one is redundant)		450 W AC (2; one is redundant)	200 W	Dual redundant 50 W		Dual redundant 150 W	Dual redundant 50 W	Dual redundant 150 W	25 W
Redundant power supply	Yes (optional)		Yes	No	Yes (optional)					No
Disk drives	240 GB SSD	120 GB SSD	240 GB SSD		128 GB eMMC				64 GB eMMC	
Hot-swappable fans	No				Fanless					

(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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