PA-3000 Series

Palo Alto Networks® PA-3000 Series of next-generation firewall appliances is comprised of the PA-3060, PA-3050 and PA-3020, all of which are targeted at high-speed Internet gateway deployments. The PA-3000 Series manages network traffic flows using dedicated processing and memory for networking, security, threat prevention and management.

Key Security Features:

Classifies all applications, on all ports, all the time

- Identifies the application, regardless of port, encryption (SSL or SSH), or evasive technique employed.

- Uses the application, not the port, as the basis for all of your safe enablement policy decisions: allow, deny, schedule, inspect and apply traffic-shaping.

- Categorizes unidentified applications for policy control, threat forensics or App-ID™ development.

Enforces security policies for any user, at any location

- Deploys consistent policies to local and remote users running on the Windows®, Mac® OS X®, Linux®, Android®, or Apple® iOS platforms.

- Enables agentless integration with Microsoft® Active Directory® and Terminal Services, LDAP, Novell® eDirectory™ and Citrix®.

- Easily integrates your firewall policies with 802.1X wireless, proxies, NAC solutions, and any other source of user identity information.

Prevent known and unknown threats

- Blocks a range of known threats, including exploits, malware and spyware, across all ports, regardless of common threat-evasion tactics employed.

- Limits the unauthorized transfer of files and sensitive data, and safely enables non-work-related web surfing.

- Identifies unknown malware, analyzes it based on hundreds of malicious behaviors, and then automatically creates and delivers protection.

PA-3060

PA-3050

PA-3020

The controlling element of the PA-3000 Series is PAN-OS®, a security-specific operating system that natively classifies all traffic, inclusive of applications, threats and content, and then ties that traffic to the user, regardless of location or device type. The application, content and user – in other words, the business elements that run your business – are then used as the basis of your security policies, resulting in an improved security posture and a reduction in incident response time.

Performance and Capacities[1]	PA-3050	PA-3060	PA-3020
Firewall throughput (App-ID enabled)	4 Gbps	4 Gbps	2 Gbps
Threat prevention throughput	2 Gbps	2 Gbps	1 Gbps
IPsec VPN throughput	500 Mbps	500 Mbps	500 Mbps
New sessions per second	50,000	50,000	50,000
Max sessions	500,000	500,000	250,000
Virtual systems (base/max[2])	1/6	1/6	1/6

[1] Performance and capacities are measured under ideal testing conditions using PAN-OS 7.1.
[2] Adding virtual systems to the base quantity requires a separately purchased license.

Networking Features

Interface Modes
L2, L3, Tap, Virtual wire (transparent mode)

Routing
OSPFv2/v3 with graceful restart, BGP with graceful restart, RIP, static routing

Policy-based forwarding

Point-to-Point Protocol over Ethernet (PPPoE)

Multicast: PIM-SM, PIM-SSM, IGMP v1, v2, and v3

Bidirectional Forwarding Detection (BFD)

IPv6
L2, L3, Tap, Virtual Wire (transparent mode)

Features: App-ID, User-ID, Content-ID, WildFire and SSL decryption

SLAAC

IPSec VPN
Key Exchange: Manual key, IKEv1 and IKEv2 (pre-shared key, certificate-based authentication)

Encryption: 3DES, AES (128-bit, 192-bit, 256-bit)

Authentication: MD5, SHA-1, SHA-256, SHA-384, SHA-512

VLANs
802.1q VLAN tags per device/per interface: 4,094/4,094

Aggregate interfaces (802.3ad), LACP

Network Address Translation (NAT)
NAT modes (IPv4): Static IP, dynamic IP, dynamic IP and port (port address translation)

NAT64, NPTv6

Additional NAT features: dynamic IP reservation, tunable dynamic IP and port oversubscription

High availability
Modes: Active/Active, Active/Passive

Failure detection: Path monitoring, interface monitoring

Hardware Specifications

I/O
PA-3060 - (8) 10/100/1000, (8) Gigabit SFP, (2) 10 Gigabit SFP+

PA-3050 | PA-3020 - (12) 10/100/1000, (8) SFP Gigabit

Management I/O
(1) 10/100/1000 out-of-band management port, (2) 10/100/1000 high availability, (1) RJ-45 console port

Storage capacity
120GB SSD

Power supply (Avg/max power consumption)
PA-3060 - Redundant 400W AC (160/200)

PA-3050 | PA-3020 - Single 250W AC (150/200)

Max BTU/hr
683

Input voltage (Input frequency)
100-240VAC (50-60Hz)

Max current consumption
2A@100VAC

Rack mountable (Dimensions)
PA-3060 - 1.5U, 19" standard rack (2.6"H x 14"D x 17.5"W)

PA-3050 | PA-3020 -1U, 19" standard rack (1.75"H x 17"D x 17"W)

Weight (Stand alone device/as shipped)
PA-3060 - 18lbs/27.5lbs

PA-3050 | PA-3020 - 15lbs/20lbs

Safety
UL, CUL, CB, cCSAus

EMI
FCC Class A, CE Class A, VCCI Class A

Certifications
See: https://www.paloaltonetworks.com/company/certifications.html

Environment
Operating temperature: 32 to 122 F, 0 to 50 C

Non-operating temperature: -4 to 158 F, -20 to 70 C

To view additional information about the features and associated capacities of the PA-3000 Series, please visit www.paloaltonetworks.com/products.