

# PA-2000 Series

## Key Security Features:

### CLASSIFY ALL APPLICATIONS, ON ALL PORTS, ALL THE TIME WITH APP-ID™.

- Identify the application, regardless of port, encryption (SSL or SSH) or evasive technique employed.
- Use the application, not the port, as the basis for all safe enablement policy decisions: allow, deny, schedule, inspect, apply traffic shaping.
- Categorize unidentified applications for policy control, threat forensics, custom App-ID creation, or packet capture for App-ID development.

### EXTEND SAFE APPLICATION ENABLEMENT POLICIES TO ANY USER, AT ANY LOCATION, WITH USER-ID™ AND GLOBALPROTECT™.

- Agentless integration with Active Directory, LDAP, eDirectory Citrix and Microsoft Terminal Services.
- Easily integrate firewall policies with NAC, 802.1X wireless, Proxies and NAC solutions.
- Deploy consistent policies to local and remote users running Microsoft Windows, Mac OS X, Linux, Android or iOS platforms.

### PROTECT AGAINST ALL THREATS—BOTH KNOWN AND UNKNOWN—WITH CONTENT-ID™ AND WILDFIRE™.

- Block a range of known threats including exploits, malware and spyware, across all ports, regardless of common threat evasion tactics employed.
- Limit unauthorized transfer of files and sensitive data, and control non work-related web surfing.
- Identify unknown malware, analyze it based on more than 230 malicious behaviors, then automatically create and deliver protection in the next content update.



PA-2050



PA-2020

The Palo Alto Networks® PA-2000 Series is comprised of the PA-2050 and the PA-2020, both of which are targeted at high speed Internet gateway deployments. The PA-2000 Series manages network traffic flows using dedicated processing and memory for networking, security, threat prevention and management.

The controlling element of the PA-2000 Series is PAN-OS™, a security-specific operating system that natively classifies all traffic, inclusive of applications, threats and content, 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 <sup>1</sup>	PA-2050	PA-2020
Firewall throughput (App-ID enabled)	1 Gbps	500 Mbps
Threat prevention throughput	500 Mbps	200 Mbps
IPSec VPN throughput	300 Mbps	200 Mbps
New sessions per second	15,000	15,000
Max sessions	250,000	125,000
Virtual systems (base/max <sup>2</sup> )	1/6	1/6

<sup>1</sup> Performance and capacities are measured under ideal testing conditions using PAN-OS 6.0.

<sup>2</sup> Adding virtual systems to the base quantity requires a separately purchased license.

To view additional information on the PA-2000 Series security features and associated capacities, please visit [www.paloaltonetworks.com/products](http://www.paloaltonetworks.com/products)

The PA-2000 Series supports a wide range of networking features that allows you to more easily integrate our security features into your existing network.

## Networking Features

### INTERFACE MODES

- L2, L3, Tap, Virtual wire (transparent mode)

### ROUTING

- OSPFv2/v3, 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

### 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, IKE v1 (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)

### NETWORK ADDRESS TRANSLATION (NAT)

- NAT modes (IPv4): Static IP, dynamic IP, dynamic IP and port (port address translation)
- NAT64
- Additional NAT features: Dynamic IP reservation, dynamic IP and port oversubscription

### HIGH AVAILABILITY

- Modes: Active/Active, Active/Passive
- Failure detection: Path monitoring, interface monitoring

## Hardware Specifications

### I/O

**PA-2050** - (16) 10/100/1000, (4) SFP optical gigabit

**PA-2020** - (12) 10/100/1000, (2) SFP optical gigabit

### MANAGEMENT I/O

- (1) 10/100/1000 out-of-band management port, (1) RJ-45 console port

### STORAGE CAPACITY

- 160GB HDD

### POWER SUPPLY (AVG/MAX POWER CONSUMPTION)

- 250W (105W/120W)

### MAX BTU/HR

- 409

### INPUT VOLTAGE (INPUT FREQUENCY)

- 100-240VAC (50-60Hz)

### MAX CURRENT CONSUMPTION

- 1.5A@100VAC

### MEAN TIME BETWEEN FAILURE (MTBF)

- 7.3 years

### MAX INRUSH CURRENT

- 70A@230VAC; 35A@115VAC

### RACK MOUNTABLE (DIMENSIONS)

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

### WEIGHT (STAND ALONE DEVICE/AS SHIPPED)

- 15lbs/20lbs

### SAFETY

- UL, CUL, CB

### EMI

- FCC Class A, CE Class A, VCCI Class A, TUV

### 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

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4401 Great America Parkway  
Santa Clara, CA 95054

Main: +1.408.753.4000  
Sales: +1.866.320.4788  
Support: +1.866.898.9087

[www.paloaltonetworks.com](http://www.paloaltonetworks.com)

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