

# PA-800 SERIES

Palo Alto Networks® PA-800 Series next-generation firewall appliances, comprising the PA-820 and PA-850, are designed to secure enterprise branch offices and midsize businesses.

## 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™ technology 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®, macOS®, 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, network access control and any other source of user identity information.

### Prevents known and unknown threats

- Blocks a range of known threats, including exploits, malware and spyware, across all ports, regardless of common 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-800 Series

The controlling element of the PA-800 Series appliances is PAN-OS®, which 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 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	PA-850	PA-820
Firewall throughput (App-ID) <sup>1,3</sup>	1.9 Gbps	940 Mbps
Threat Prevention throughput <sup>2,3</sup>	780 Mbps	610 Mbps
IPsec VPN throughput <sup>1,3</sup>	500 Mbps	400 Mbps
New sessions per second <sup>4</sup>	9,500	8,300
Max sessions	192,000	128,000

1. Firewall and IPsec VPN throughput are measured with App-ID and User-ID features enabled

2. Threat Prevention throughput is measured with App-ID, User-ID, IPS, antivirus and anti-spyware features enabled

3. Throughput is measured with 64KB HTTP transactions

4. New sessions per second is measured with 4KB HTTP transactions

PA-800 Series appliances support a wide range of networking features that enable you to more easily integrate our security features into your existing network.

## Networking Features

<b>Interface Modes</b>
L2, L3, tap, virtual wire (transparent mode)
<b>Routing</b>
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
<b>IPv6</b>
L2, L3, tap, virtual wire (transparent mode)
Features: App-ID, User-ID, Content-ID, WildFire and SSL decryption
SLAAC
<b>IPsec VPN</b>
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
<b>VLANs</b>
802.1Q VLAN tags per device/per interface: 4,094/4,094
Aggregate interfaces (802.3ad), LACP
<b>Network Address Translation</b>
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
<b>High Availability</b>
Modes: active/active, active/passive
Failure detection: path monitoring, interface monitoring

## Hardware Specifications

<b>I/O</b>
PA-850: (4) 10/100/1000, (8) Gigabit SFP or PA-850: (4) 10/100/1000, (4) Gigabit SFP, (4) 10 Gigabit SFP+ PA-820: (4) 10/100/1000, (8) Gigabit SFP
<b>Management I/O</b>
(1) 10/100/1000 out-of-band management port (2) 10/100/1000 high availability (1) RJ-45 console port (1) USB port (1) Micro USB console port
<b>Storage Capacity</b>
240GB SSD
<b>Power Supply (Average Power Consumption)</b>
PA-850: two 500 W AC power supplies; one power supply is redundant (75 W) PA-820: 200 W power supply (45 W)
<b>Max BTU/hr</b>
256
<b>Input Voltage (Input Frequency)</b>
100–240VAC (50–60Hz)
<b>Max Current Consumption</b>
2.0A @ 100VAC, 1.0A @ 240VAC (PA-850) 1.0A @ 100VAC, 0.5A @ 240VAC (PA-820)
<b>Max Inrush Current</b>
1.0A @ 230VAC, 1.84A @ 120VAC (PA-850) 0.4A @ 230VAC, 0.96A @ 120VAC (PA-820)
<b>Rack Mountable (Dimensions)</b>
PA-850: 1U, 19" standard rack (1.75" H x 14.5" D x 17.125" W) PA-820: 1U, 19" standard rack (1.75" H x 14" D x 17.125" W)
<b>Weight (Stand-Alone Device/As Shipped)</b>
PA-850: 13.5 lbs / 21.5 lbs PA-820: 11 lbs / 18 lbs
<b>Safety</b>
cCSAus, CB
<b>EMI</b>
FCC Class A, CE Class A, VCCI Class A
<b>Certifications</b>
See <a href="https://www.paloaltonetworks.com/company/certifications.html">https://www.paloaltonetworks.com/company/certifications.html</a>
<b>Environment</b>
Operating temperature: 32° to 104° F, 0° to 40° C Non-operating temperature: -4° to 158° F, -20° to 70° C
<b>Airflow</b>
Front to back

To view additional information about the features and associated capacities of the PA-800 Series, please visit [www.paloaltonetworks.com/products](http://www.paloaltonetworks.com/products).



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