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)[1, 3]	1.9 Gbps	940 Mbps
Threat Prevention throughput[2, 3]	780 Mbps	610 Mbps
IPsec VPN throughput[1, 3]	500 Mbps	400 Mbps
New sessions per second[4]	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

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

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 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-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

Management I/O

(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

Storage Capacity

240GB SSD

Power Supply (Average Power Consumption)

PA-850: two 500 W AC power supplies; one power supply is redundant (75 W)
PA-820: 200 W power supply (45 W)

Max BTU/hr

256

Input Voltage (Input Frequency)

100–240VAC (50–60Hz)

Max Current Consumption

2.0A @ 100VAC, 1.0A @ 240VAC (PA-850)
1.0A @ 100VAC, 0.5A @ 240VAC (PA-820)

Max Inrush Current

1.0A @ 230VAC, 1.84A @ 120VAC (PA-850)
0.4A @ 230VAC, 0.96A @ 120VAC (PA-820)

Rack Mountable (Dimensions)

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)

Weight (Stand-Alone Device/As Shipped)

PA-850: 13.5 lbs / 21.5 lbs
PA-820: 11 lbs / 18 lbs

Safety

cCSAus, CB

EMI

FCC Class A, CE Class A, VCCI Class A

Certifications

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

Environment

Operating temperature: 32° to 104° F, 0° to 40° C
Non-operating temperature: -4° to 158° F, -20° to 70° C

Airflow

Front to back

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

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pa-800-series-ds-041018