

# Hardware Gen-5 NGFW

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# Introducing PAN-OS 12.1 Orion



## Unified Security to Accelerate Cloud and AI Transformation

Multi-cloud Security Fabric  
Micro Perimeter  
Autoscales with Integrated Load Balancing



## Easiest path to Quantum-Safe Security

Quantum Readiness/Inventory  
Cypher Translation  
PQC Threat Inspection



## Precision AI: Expanded Defense Capabilities Across the Enterprise

Advanced DNS Resolver  
Proactive Device Security  
New AI Driven Threat Detections



## 14 New NGFWs

Exceptional speed & flexibility to keep pace with your growth



## Strata Cloud Manager

Unified Managed with the Network Security Management Tool of Choice

# 14 New NGFWs

## Redefining Performance and Protection

# 14 New NGFWs

High-Performance Security for the Modern Enterprise Data Center

## Data Centers



PA-5580



PA-5550



PA-5570



PA-5540



PA-5560

### PA-5500 Series

## Distributed Branch Locations



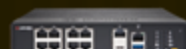
PA-560



PA-540



PA-555-POE



PA-520



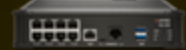
PA-550



PA-510



PA-545-POE



PA-505

### PA-500 Series

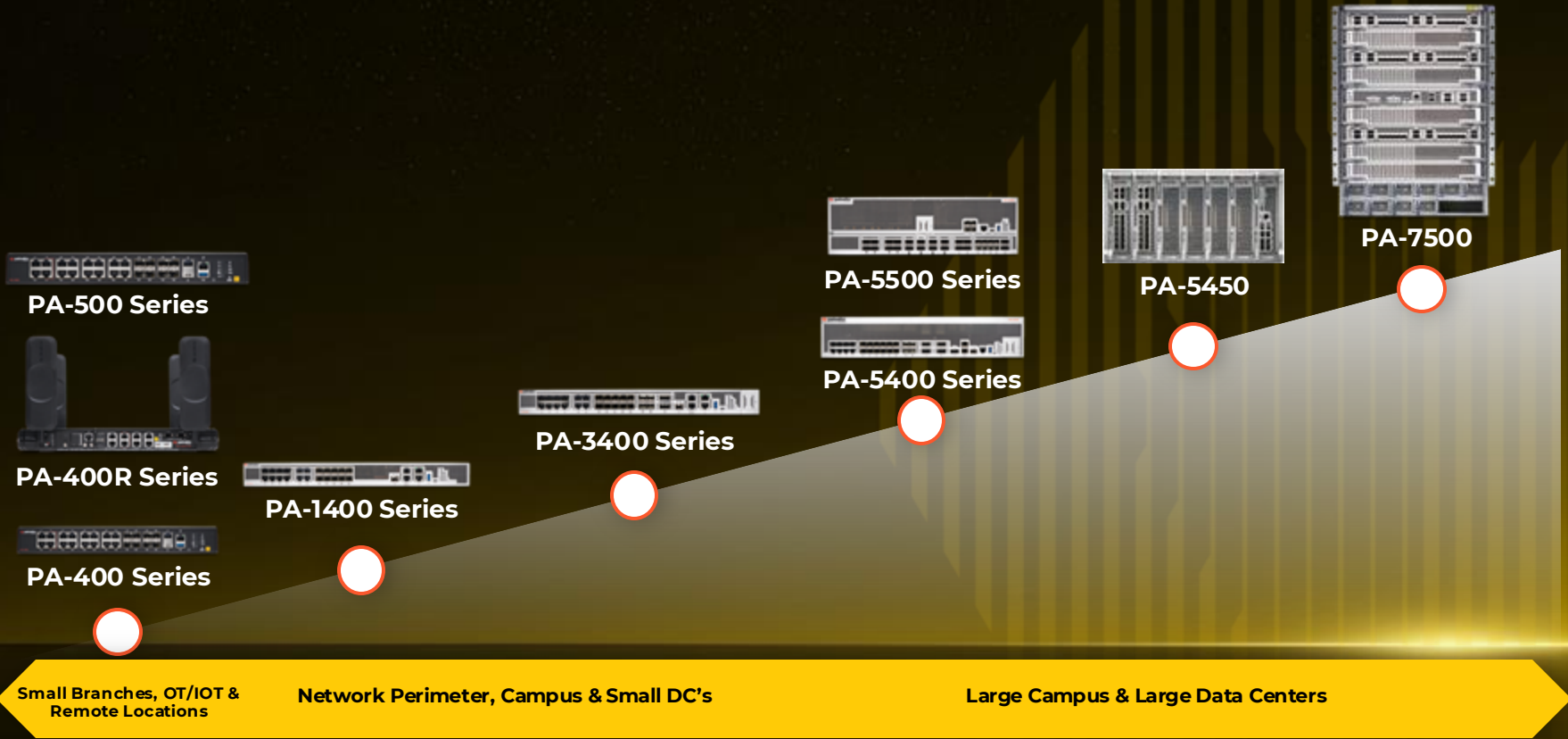
## Extreme Environments



PA-455R-5G

Upgrade To  
5th-Generation NGFWs from Palo Alto Networks

# PA-Series NGFWs - High performance ML-Powered NGFWs for every use case



# PA-500 Series

# PA-500 Series

**Problem/Opportunity:** HW proliferation for distributed enterprise increases management complexity and TCO. Current port density and fiber port/speed variations does not meet growing needs of remote and small branches. Customers prefer a single box compact solution that provides higher port density, fiber interfaces, and increased PoE power for the branch or remote locations. Integrating POE options simplifies branch office consolidation by delivering both power and data over a single cable to devices like POS systems, IP phones, printers, and security cameras, reducing infrastructure costs and setup complexity.

**What we're delivering:** A single desktop form factor platform with:

- Increased port density and (10G/1G) fiber options
- Up to 2x Threat Performance
- Local logging on all platforms
- Increased POE power budget and (Multi-Gig) POE ports (Ranges from 181W (4 ports) up to 330w (8 ports))
- Quantum Ready

**Competitive Differentiation:** Higher threat throughput and PoE power in a single box solution

**Positioning With Headline:** Enterprise Security In Compact Form Factor with integrated security and networking for branches & remote locations.

# PA-500 Series

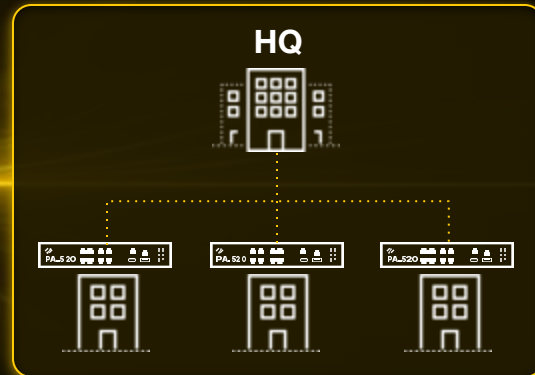
Enterprise Security for the Distributed Branch



# 2X

Performance

Best L7 Security in the  
Enterprise Branch



## Up to 2x Performance

Compared to PA-400 Series

## Simple Deployment

New Zero Touch Provisioning with Strata Cloud Manager

## High Port Density

Flexible connectivity with up to 24 ports


## Unified Power & Network

330W PoE capable - delivering power and data over a single cable

# PA-500 Series

## Enterprise Security In Compact Form Factor For The Branch

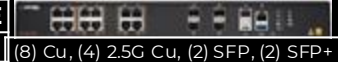
### PA-500 Series SKUs

<b>PA-560</b>	
<b>6 Gbps</b>	(16) Cu, (4) SFP, (4) SFP+


<b>PA-550</b>	
<b>4.5 Gbps</b>	(12) Cu, (2) SFP, (2) SFP+


<b>PA-540</b>	
<b>2.2 Gbps</b>	(8) Cu, (2) SFP

<b>PA-510</b>	
<b>1.2 Gbps</b>	(8) Cu

<b>PA-555-POE</b>	
<b>5 Gbps</b>	(8) Cu, (4) 2.5G Cu, (2) SFP, (2) SFP+
	330w POE (8-ports)

*POE Enabled*

<b>PA-545-POE</b>	
<b>3 Gbps</b>	(8) Cu, (4) 2.5G Cu, (4) SFP
	181w POE (4-ports)

<b>PA-520</b>	
<b>1.8 Gbps</b>	(8) Cu

<b>PA-505</b>	
<b>0.8 Gbps</b>	(7) Cu

### Available in 500 series



**Single box solution** for branches with switching, POE, and NGFW



**2x Threat performance** (up to 6 Gbps) vs Gen 4



Enabled with **local logging**



Simplified Onboarding with **Zero Touch Provisioning** (QR Code Scanning)



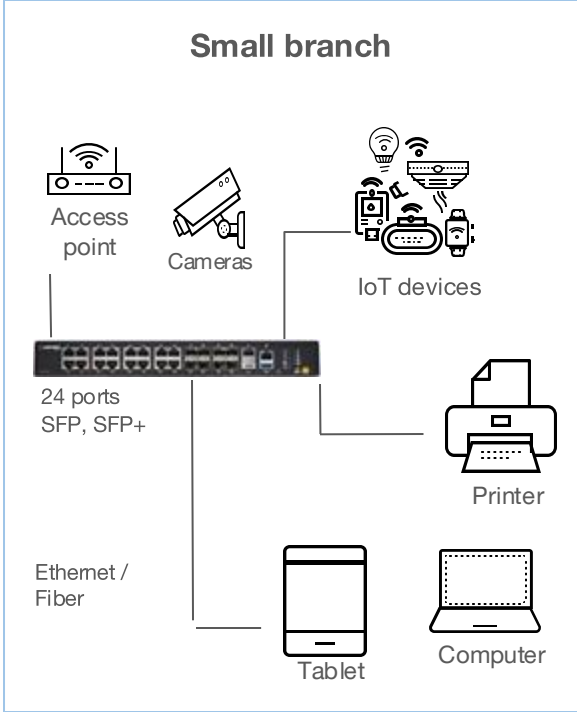
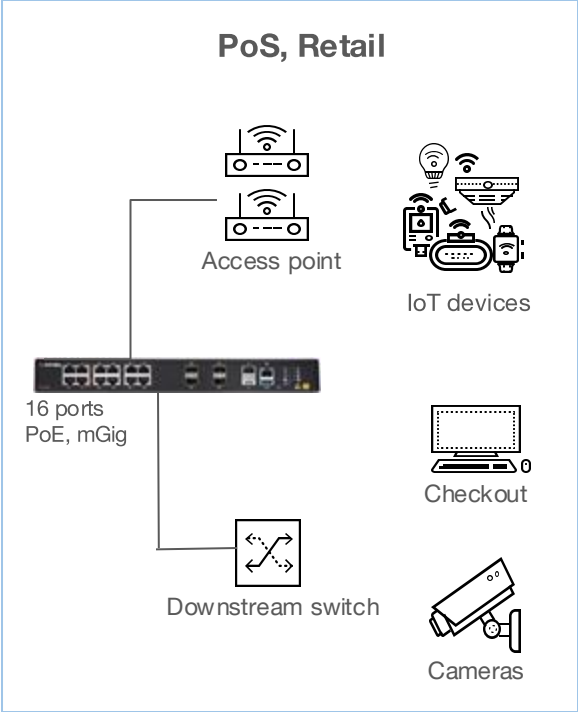
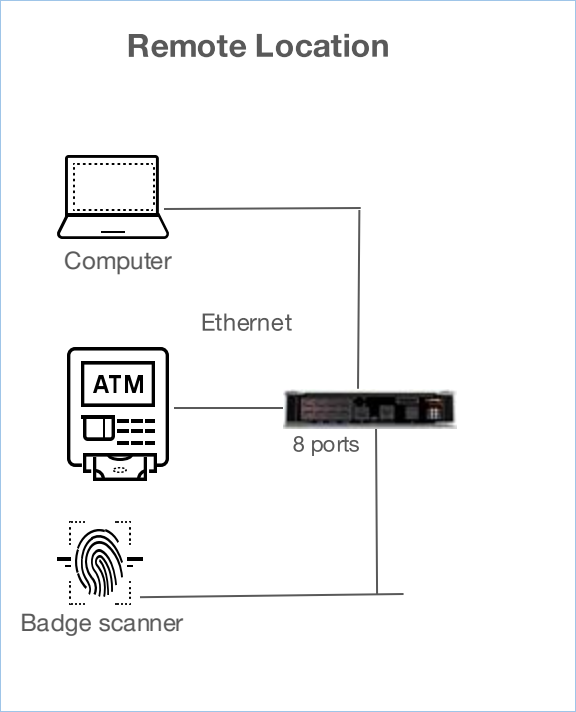
**High Port Density** Up to 24 copper and fiber interfaces



**330W PoE To Power Branch Devices** 2X PoE compared to previous generation

1. FCS for 505 in Nov 2025
2. POE = Power Over Ethernet

# PA-500: Extend Enterprise Protection To Branch/Retail

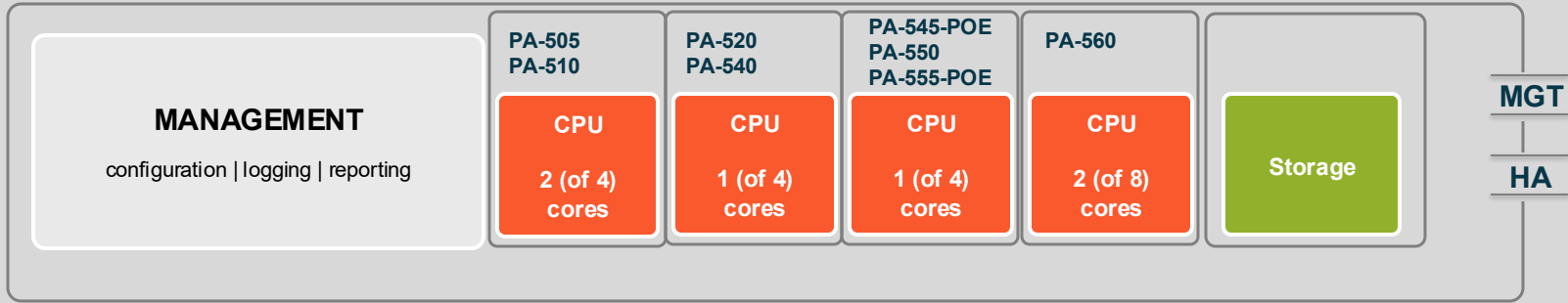


# Comparing Gen-4 Vs Gen-5 Hardware NGFWs

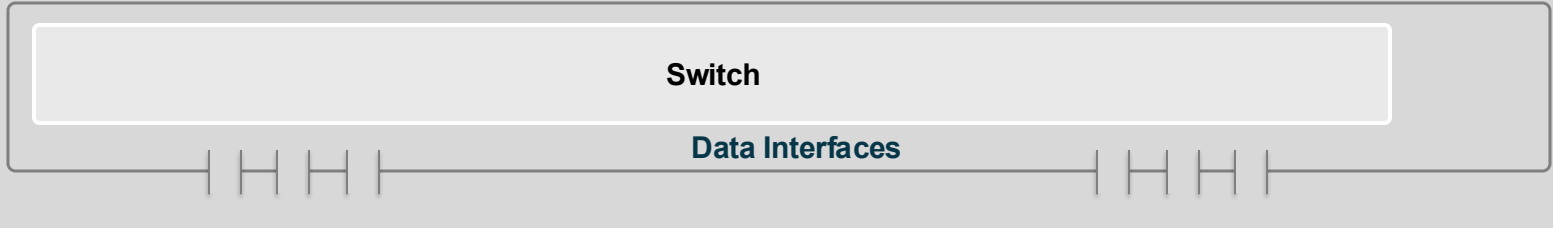
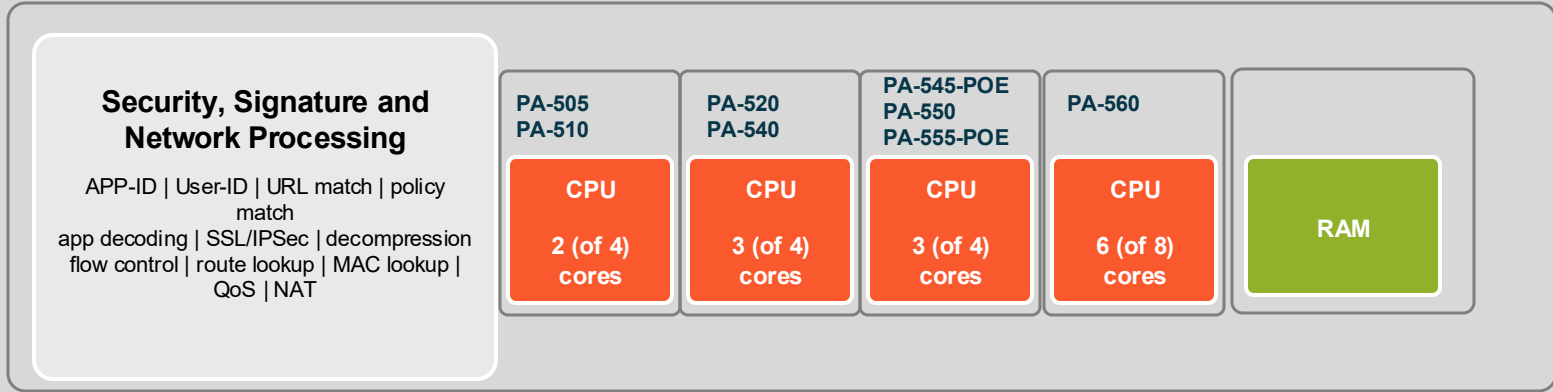
# Strata Network Security Platforms: Atlas (PA-500 Series)

	PA-505	PA-510	PA-520	PA-540	PA-545-POE	PA-550	PA-555-POE	PA-560
<b>Threat (appmix)</b>	<b>0.8 Gbps</b>	<b>1.2 Gbps</b>	<b>1.8 Gbps</b>	<b>2.2 Gbps</b>	<b>3 Gbps</b>	<b>4 Gbps</b>	<b>5 Gbps</b>	<b>6 Gbps</b>
<b>I/O Ports</b>	(7) Cu	(8) Cu	(8) Cu	(8) Cu (2) SFP	(8) Cu, (4) 2.5G Cu (4) SFP	(12) Cu, (2) SFP, (2) SFP+	(8) Cu, (4) 2.5G Cu, (2) SFP, (2) SFP+	(16) Cu, (4) SFP, (4) SFP+
<b>Sessions</b>	64 k	100 k	150 k	300 k	300 k	450 K	450 K	600 K
<b>Local Logging</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>PoE</b>	-	-	-	-	181w (4 ports)	-	330w (8 ports)	-

	PA-410	PA-415	PA-415-5G	PA-440	PA-445	PA-450	PA-455	PA-455-5G	PA-460
<b>Threat (appmix)</b>	<b>0.8 Gbps</b>	<b>0.8 Gbps</b>	<b>0.8 Gbps</b>	<b>1.2 Gbps</b>	<b>1.25 Gbps</b>	<b>2.1 Gbps</b>	<b>2.3 Gbps</b>	<b>1.8 Gbps</b>	<b>3 Gbps</b>
<b>I/O Ports</b>	(7) Cu	(8) Cu, (1) SFP	(8) Cu, (1) SFP	(8) Cu	(8) Cu, (1) SFP	(8) Cu	(8) Cu, (1) SFP	(8) Cu, (2) SFP	(8) Cu
<b>Sessions</b>	64 k	64 k	64 k	200 k	200 k	300 k	300 k	300 k	400 k
<b>Local Logging</b>	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>PoE, 5G</b>	-	91w (4 ports)	91w (4 ports), 5G	-	91w (4 ports)	-	91w (4 ports)	150w (4 ports), 5G	-



**Data Plane**



# Match your device to your environment: Gen-5 Hardwares

**PA-560**

**PA-555-POE**

**PA-550**

**PA-545-POE**

**PA-540**

**PA-505**

**PA-520**

**PA-510**

**NEW PA-500 Series**

**PA-3440**  
35 Gbps

**PA-3430**  
29 Gbps

**PA-1420**  
9.5 Gbps

**PA-3420**  
19 Gbps

**PA-1410**  
8.5 Gbps

**PA-3410**  
14 Gbps

**PA-1400 Series**

**PA-3400 Series**

**PA-5445**  
**PA-5440**  
**PA-5430**  
**PA-5420**  
**PA-5410**  
52 Gbps-90 Gbps

**PA-5580**  
**PA-5570**  
**PA-5560**

**PA-7500**  
1.5 Tbps  
**PA-7080**  
**PA-7050**

**PA-5450**

**PA-5550**  
**PA-5540**

**PA-5400 Series**

**PA-5500 Series** **NEW**

**Large Data Center**

**PA-7000 Series**

**VM-Series**

**VM-Series NGFW**

**Cloud - Public, Private**

**PA-400R Series**

Plant iDMz / Cell/area Zones  
**HARSH ENVIRONMENTS**

**PA-400 Series**

Plant iDMz / Branch /  
Substations

Edge/Small DC

Central Management

Integrated Security Services

Central Management: **PN**

Integrated Security Services: **ADV TP** **ADV WF** **ADV URL** **DNS**

# PA-455R-5G Series

# Security in Harsh Environments

## Disaster Recovery



Rapid deployment of kiosks to enable FEMA aid recovery efforts

## Military



Securing connectivity on ships or vehicles

## Utilities



Remote sensor equipment, cameras and physical security equipment

## Public Spaces



Securing real-time monitoring of events, physical security equipment, etc.

## Oil and Gas



Securing oil and gas refinery infrastructure, sensors and other equipment remotely

# Ruggedized - PA-400R Series

## Everywhere You Need Security

NEW



PA-455R-5G



PA-450R-5G



PA-450R



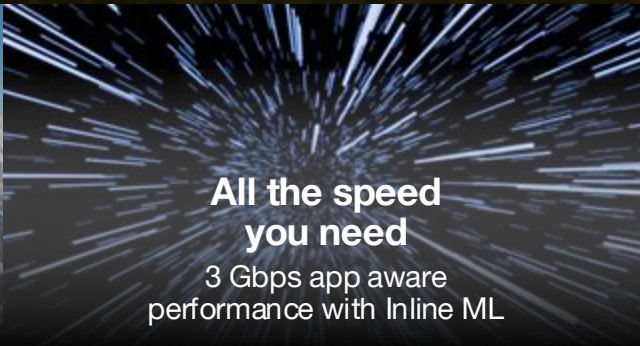
PA-410R-5G



PA-410R



**Security From Mt. Everest  
to Death Valley**  
-40°C to 70°C degrees  
and IP40 / IP65 compliant



**All the speed  
you need**  
3 Gbps app aware  
performance with Inline ML



**Power outage?  
No problem**  
Fail-to-wire passes traffic  
even without power

**Ruggedized for Extreme Environments**

# PA-400 Series 5G Products

	PA-410R-5G	PA-415-5G	PA-450R-5G	PA-455-5G	PA-455R-5G
Threat (appmix)	0.7Gbps	0.8 Gbps	1.4 Gbps	1.8 Gbps	1.8 Gbps
App-ID (appmix)	1.4 Gbps	1.4 Gbps	3.2 Gbps	3.2 Gbps	3.2 Gbps
I/O Ports	(4) Cu, (2) SFP	(9) Cu, (1) SFP	(8) Cu, (2) SFP	(8) Cu, (2) SFP	(8) Cu, (2) SFP
Temperature	-40 to +70 deg C	0 to +40 deg C	-40 to +70 deg C	0 to +40 deg C	-40 to +70 deg C
IP Rating	IP-65	NA	IP-40	IP-40	IP-65
Input Power	Dual 12-48 VDC	Dual AC	Dual 12-48 VDC	Dual AC	Dual AC
Sessions	64 K	64 K	200 K	300 K	200 K
Mounting	DIN	Rack	Rack	Rack	Pole/Wall
5G Support	Yes	Yes	Yes	Yes	Yes
Fail to Wire	Yes	No	Yes	No	No
Logging	Yes	Yes	Yes	Yes	Yes
PoE	No	91W	No	150W (max 60W per port)	150W (max 60W per port)
Type	Indoor	Indoor	Indoor	Indoor	Outdoor
Size and Weight	10.5 cm H x 27 cm W x 20.8 cm D / 9lbs	4.5 cm H x 33cm W x 22.8 cm D / 7.8lb	4.44 cm H x 39 cm W x 23.8 cm D – 1RU / 10 lbs	4.44cm H x 30.3cm W x 28.3 cm D / 9lbs	38.1 cm H x 35.1cm W x 16.1cm D / 35 lbs

New

# PA-455R-5G

Ruggedized for Outdoor Environments with 5G Connectivity



## Rugged, and then some

IP65 Outdoor Rating: -40°C to 70°C degrees, Dust-Tight & Water Resistant



## Unified Power & Network

150W PoE support to monitor unmanned remote sites

## Secure unreachable places

with Integrated 5G

## Mount onto Traffic Lights/Poles

Separate Pole Mount Kit Available

# Additional Innovations

# Orion Features

## HW Firewalls

- PA-500 series
- PA-5500 series
- PA-455R-5G

## SW Firewalls

- Multi-cloud Networking and Security
- Microsegmentation
- Hyperscale Security Fabric powered by VM-Series
- Panorama enhanced Scaling for Large Cloud Environments (config above 10MB)
- Secure Boot Support for GCP
- DPDK 23.11
- Increase VM-Series interface ring size
- Container Security
- Unified security for AI / Agents

## Quantum

- Implementation of PQC for PAN-OS management plane
- Implementation of PQC in TLS for inline Decryption
- Quantum Key Distribution (QKD) w/ ETSI-014
- PQC Image Signing
- Crypto Inventory

## Management & Operations: SCM, Panorama, AIOps, ADEM

- NOC (Oper Health)
- Upgrade Orchestration
- Compliance Centre
- SW Recommendations
- Pre/Post Upgrade Checks
- Enhanced ZTP
- ADEM Agent Plugin on NGFW
- Log Collector scaling to 1M logs per second
- Support for Panorama 2-node ElasticSearch clusters
- Upload new certificates with a content upgrade

## Precision AI Powered CDSS:

### **Advanced WildFire**

- Content-based Script file type identification

### **Advanced URL Filtering**

- Decoding of Brotli HTTP traffic for MICA

### **Advanced DNS Security**

- ADNS Resolver
- Improve DNS logging capabilities

### **Advanced Threat Prevention**

- Encrypted C2 detection from Sliver tool
- Detect exfil via DNS Relay and HTTP Hdrs

### **Data Security (CASB, DLP)**

- SaaS Security (CASB): Session tracking for tenant access control
- Data Loss Prevention (DLP): DLP policy and Granular Controls

### **IoT & Device ID**

- Advanced Device-ID
- Capturing EAL logs for ICMPv6 ND/NS packets

### **Threat/App-ID**

- PSIP ALG
- IPv6 Geolocation in security policy

### **SWG**

- Web proxy support for multi-CPU platforms
- Session count increase for 5400F series

## Networking & Infrastructure

- PCAP a range of IPs, ports, and protocols
- Redhat version 9 upgrade
- Internal packet path monitoring for HA failover
- Troubleshooting: Identify top apps, IPs, and session for High DP CPU
- Troubleshooting: Automated data collection for dataplane resources

## GlobalProtect

- IKEv2 Support for GP

## User-ID / Decryption

- Session specific control for user access
- Decryption enhancements
- Disable Server Cert Verification
- Client and Server Decryption logs
- HSM Client Support for FIPS 140-3
- Passwordless Authentication for Enterprise Apps

## SD-WAN

- Converged Data-center SD-WAN with PAN-OS and Prisma SD-WAN
- Troubleshooting: Connection specific SD-WAN logging

## 5G Security

- GRE over the branch-in-a-box cellular interface
- Branch-in-a-box Zero Touch Provisioning across cellular

## Certifications

- Security enhancements
- SELinux policy, log file enforcement

# Cloud-delivered Security Services and Centralized Management

# Precision AI Network Security Bundle for NGFW

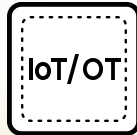
Breaking the Kill Chain to stop advanced attacks



## Precision AI Network Security Bundle

**Bundle 6** subscriptions  
for the price **of less than 3**

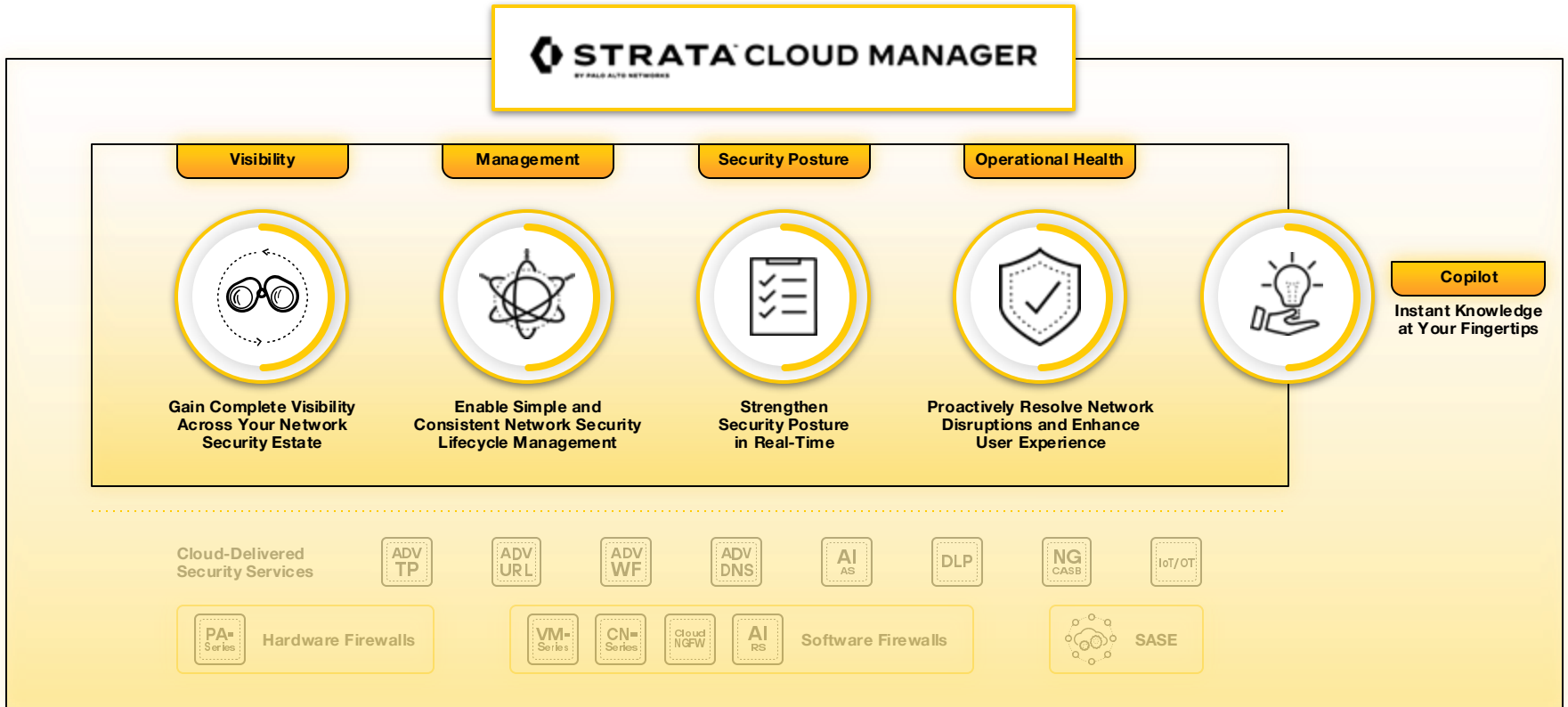
*PAN-PA-<model number>-BND-CORESEC*



**For a Limited Time**  
IoT +7% on the Precision AI  
Network Security Bundle.

**Powered by our latest innovations in cloud delivered security services to address rising threats**

# The industry's first AI-powered unified management and operations solution



# What you get is comprehensive security

Effective solutions that grow with your business

**Secure your apps** and confidently adopt cloud for your business efficiency with SaaS inline protection

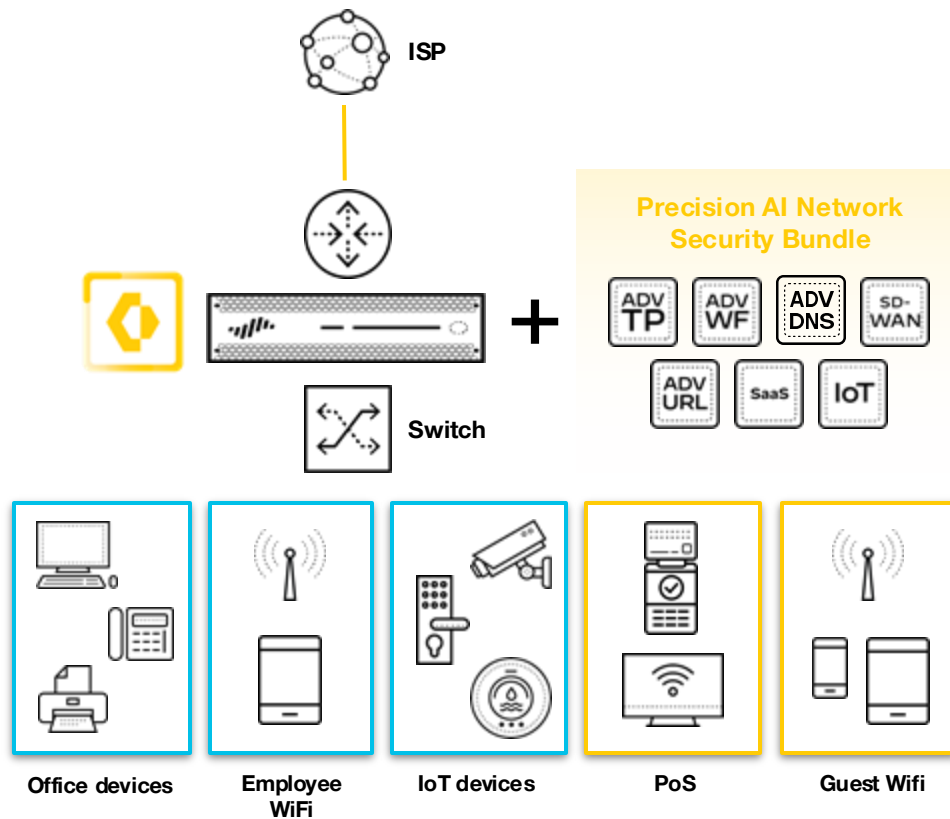
- Discovery- automatically ID new apps
- Control- author rules based on users, apps etc.
- Visibility- complete view of sanctioned and unsanctioned SaaS app usage

**Segment IoT** devices to protect crucial parts of networks

- Discovery- 90% of IOT devices id'ed in first 48 hours and risk assessment
- Native policy enforcement with Device ID and NGFW policies

Securely **connect users to applications** with **SD-WAN**

- Enhanced user experience with direct access to apps
- Faster deployment compared to MPLS networks



# Thank You

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