



VOTRE PARTENAIRE TECHNOLOGIQUE POUR DES INFRASTRUCTURES IT SÉCURISÉES ET PERFORMANTES



EXPERTISE

Des solutions adaptées
à chaque environnement



CONFIANCE

Un partenaire fiable
à vos côtés



PERFORMANCE

Des infrastructures
sécurisées et évolutives



SUPPORT

Un accompagnement
technique de qualité



Des solutions IT innovantes pour
un monde connecté et sécurisé



WIRELESS RADIO

Connectivité sans fil
haute performance



RÉSEAUX & SÉCURITÉ IT

Des réseaux fiables
et sécurisés



VIRTUALISATION CLOUD

Des solutions Cloud
flexibles et évolutives



CYBERSECURITY

Protéger vos données
et vos systèmes



VIDÉO PROTECTION

Solutions de vidéosurveillance
intelligentes



HCI STOCKAGE SAUVEGARDE

Stockage, sauvegarde
et haute disponibilité

SOLUTIONS IT

CYBERSÉCURITÉ

CLOUD

INFRASTRUCTURE RÉSEAU

STOCKAGE

PROTECTION

Introducing the Hillstone Future-Ready A-Series Next Generation Firewall



Integrative Cybersecurity
Visionary. AI-powered. Accessible.

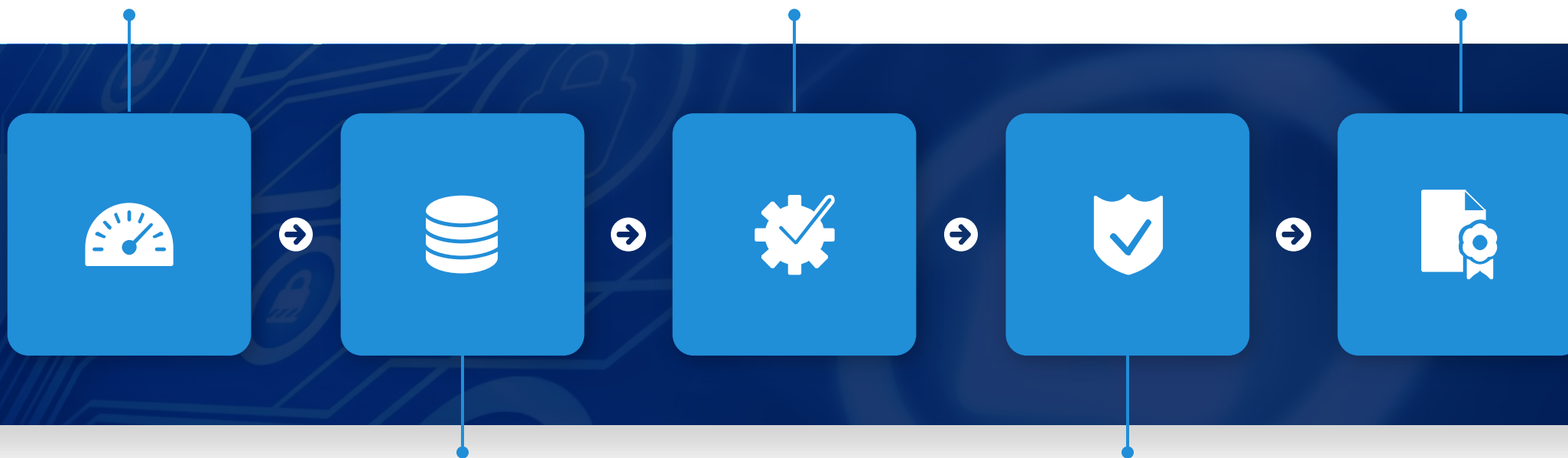
What's the New Reality for NGFW?

What's the New Reality for NGFW?

Performance becomes a
bottleneck

Devices have to be more
compact

Policy overload
creates risk and complexity



Storage space limits analytical
capability

Security landscape is constantly
changing dramatically

A Future-Ready NGFW

A Future-Ready NGFW



A-Series with Advance Hardware Architecture



**High
Performance**



**Excellent
Expansion
Capability**



**Advanced
Threat
Protection**



**Smart Policy
Operation**



**Multiple
Deployment
Scenarios**

The Hillstone A-Series: An Overview

- ▶ **Product name:**
SG-6000-A-Series NGFW



Product Highlights

- ▶ Built on a new generation of firewall hardware architecture.
- ▶ Excellent application security protection performance, high-density ports, large-capacity local and optional expansion storage, at a better TCO.
- ▶ Based on Hillstone innovative operating system, StoneOS.
- ▶ Hillstone's evolution in AI will continue to provide robust advanced threat detection in the future.

A Future-Ready NGFW - Extraordinary Performance Based on Advanced Hardware Architecture



A-Series with Advance Hardware Architecture



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Advanced NGFW Hardware Architecture



Powerful computing foundation guarantees high performance



Friendly software ecology guarantees high for third-party integration



SSL decryption hardware acceleration capability: alleviates CPU intensive tasks from servers



Hillstone proprietary hardware acceleration engine: significantly improves packet fast forwarding capability by offloading traffic from CPU



High-density interfaces, and front and rear-end air ventilation in compact design

Note: the SSL decryption hardware acceleration capability will be available via software upgrade in phase 2. A200(W)-IN series do NOT support hardware acceleration; the Hillstone proprietary hardware acceleration engine is only available for A6800-IN and A7600-IN.

Outstanding Hardware Design



SSL Decryption Hardware Acceleration

Free up more CPU resources

Defend against the threats of encrypted traffic with strong decryption capability



Compact Design

Small size, energy-saving:
Desktop or 1RU rackmount model

Possess high-density interfaces and power modules in all 1RU rackmount models



Front and Rear-end Air Ventilation

Improve heat-dissipation capability

Meet the heat-dissipating requirement of data center rack

Maintain good performance

Hillstone Proprietary Hardware Acceleration Engine



High Throughput

- Enable high-end models to cover the throughput requirements of high-traffic scenarios



Fast Packet Forwarding

- Free up CPU by offloading IPv4/IPv6 traffic, to process comprehensive security services



CPU Offload

- Ultra-low latency in packet forwarding within a few microseconds, fully meet the needs of latency-sensitive scenarios



High Performance Highlights & Values

High Firewall Throughput

- High firewall throughput up to **280 Gbps**
- ▶ Meet the high-traffic needs in scenarios like data centers

High Application-Layer Performance

- High IPS throughput up to **70 Gbps** with 2QSFP+ module
- High level of concurrent sessions up to **42 Million**
- ▶ Meet real-world network security needs

Powerful Fast-forward Capability

- Ultra-low latency in packet forwarding within a few **microseconds**
- ▶ Meet the requirements of latency-sensitive scenarios

A Future-Ready NGFW - Excellent Expansion Capability



A-Series with Advance Hardware Architecture



**High
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**Excellent
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Capability**

Interface & Storage



**Advanced
Threat
Protection**



**Smart Policy
Operation**



**Multiple
Deployment
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Excellent Access Capability with Advanced Interface



Interface Highlights



- Large amount of fixed, high-speed I/O ports (high-density up to 4 QSFP28)
- A2715-IN/A2815-IN/A3615-IN/A3700-IN/A3800-IN/A3815-IN/A5K-IN/A6800-IN/A7600-IN models support expansion
- Native bypass pairs in A1100-IN/A2K-IN/A3K-IN/A5K-IN rackmount models
- All rackmount models provide two USB3.0 interfaces

Benefits



- NGFW can also act as a switch and router; fast data rate support
- Throughput increase by adding expansion module :
A3700-IN/A3800-IN: 20 Gbps -> 30 Gbps, A5100-IN/A5155-IN: 25 Gbps -> 50 Gbps, A5200-IN/A5255-IN: 32 Gbps -> 65 Gbps, A5500-IN/A5555-IN: 40 Gbps -> 80 Gbps, A5600: 60 Gbps -> 85 Gbps, A5800-IN: 80 Gbps -> 95 Gbps, A7600: 280 Gbps -> 320 Gbps
- Bypass capability ensures business continuity
- 4G access capability

Value



- Cost Savings
- Increased Performance
- High Availability
- Future Ready

Platform	A200-IN	A200W-IN	A1000-IN	A1100-IN	A2000-IN	A2600-IN	A2700-IN	A2715-IN	A2800-IN	A2815-IN	A3000-IN	A3600-IN	A3615-IN	A3700-IN	A3800-IN	A3815-IN	A5100-IN	A5155-IN	A5200-IN	A5255-IN	A5500-IN	A5555-IN	A5600-IN	A5800-IN	A6800-IN	A7600-IN
Fixed I/O Ports	5 * GE, 1 * SFP	5 * GE, 1 * SFP	4 * GE	8 * GE(RJ45) (1 bypass pair)	8 * GE(RJ45) (1 bypass pair)	8 * GE(RJ45) (1 bypass pair)	2 * SFP+ 8 * SFP	8 * SFP, 8 * GE (2 bypass pairs)	2 * SFP+ 8 * SFP	8 * SFP, 8 * GE (2 bypass pairs)	2 * 10GE(SFP+) 8 * GE(SFP) 16 * GE(RJ45) (2 bypass pair)	2 * 10GE(SFP+) 8 * GE(SFP) 16 * GE(RJ45) (2 bypass pair)	8 * SFP, 8 * GE (2 bypass pairs)	2 * 10GE(SFP+) 8 * GE(SFP) 16 * GE(RJ45) (2 bypass pair)	2 * 10GE(SFP+) 8 * GE(SFP) 16 * GE(RJ45) (2 bypass pair)	8 * SFP, 8 * GE (2 bypass pairs)	6 * SFP+, 16 * SFP, 8 * GE (2 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (4 bypass pairs)	6 * SFP+, 16 * SFP, 8 * GE (2 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (4 bypass pairs)	6 * SFP+, 16 * SFP, 8 * GE (2 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (4 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (4 bypass pairs)	4 * QSFP28 (or 2 * QSFP28) 12 * SFP+ 8 * SFP+/SFP	4 * QSFP28 (or 2 * QSFP28) 12 * SFP+ 8 * SFP+/SFP	
Wi-Fi/4G Dongle	4G Dongle	IEEE802.11 a/b/g/n/ac, 4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	N/A	N/A
Expansion Slots	-	-	-	-	-	-	-	1	-	1	-	-	2	1	1	2	1	1	1	1	1	1	1	1	1	1
Expansion Module Option	-	-	-	-	-	-	-	IOC-A-F-4SFP+-IN IOC-A-F-8SFP+-IN IOC-A-F-8GE-IN	-	IOC-A-F-4SFP+-IN IOC-A-F-8SFP+-IN IOC-A-F-8GE-IN	-	-	IOC-A-F-4SFP+-IN IOC-A-F-8SFP+-IN IOC-A-F-8GE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SMM-BE-IN		
USB	1 × USB2.0	1 × USB2.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0	2 × USB3.0

Better Analytics and Visibility with Increased Storage



- Store configuration files, signature databases, images, etc.
 - Store network/event/configuration logs, reports
 - Cloud Sandbox logs or threat logs should be sent to HSM, HSA or CloudView for longer term storage
 - The storage size of each module is specified by the system and cannot be configured
- eMMC stores:
 - › configuration files, signature databases, images, etc.
 - Hard drive stores:
 - › Network/event/configuration/**threat/cloud sandbox logs (up to 6 months)**
 - › **More comprehensive reports**
 - **More analytics capability**, including IPS threat packet capture
 - The **storage size of each module** is specified by the system by default, and it **can be configured**

Platform	A200-IN	A200W-IN	A1000-IN	A1100-IN	A2000-IN	A2600-IN	A2700-IN	A2715-IN	A2800-IN	A2815-IN	A3000-IN	A3600-IN	A3615-IN	A3700-IN	A3800-IN	A3815-IN	A5100-IN	A5155-IN	A5200-IN	A5255-IN	A5500-IN	A5555-IN	A5600-IN	A5800-IN	A6800-IN	A7600-IN
Local Storage	4 GB	4 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB
Expansion Storage Options	0	0	256 GB SSD	256 GB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	

A Future-Ready NGFW - Advanced Threat Protection



A-Series with Advance Hardware Architecture



**High
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**Excellent
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**Advanced
Threat
Protection**



**Smart Policy
Operation**



**Multiple
Deployment
Scenarios**

Interface & Storage

Advanced Threat Protection for Known and Unknown Malware

IPS blocks vulnerability exploitation

IP Reputation blocks risky IPs from accessing servers

URL Filtering controls user access to specified websites

Anti-Virus filters viruses in files of different types and over different protocols

Anti-Spam classifies and prevents potential spam

Anti-Virus responds to known viruses

Cloud Sandbox responds to unknown viruses

Botnet C&C Prevention blocks the control channel and catches intranet bots

Pre-breach

Breach

Post-breach



**Intrusion
Prevention**



**IP
Reputation**



**URL
Filtering**



Anti-Spam



Anti-Virus



**Cloud
Sandbox**

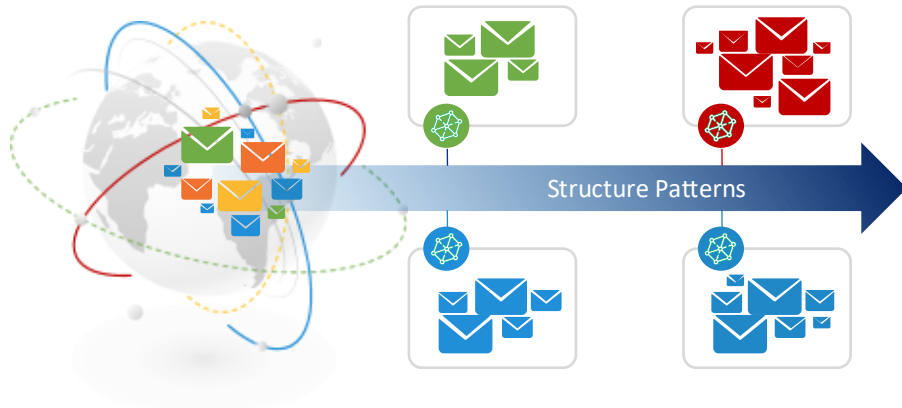


**Botnet C2
Prevention**

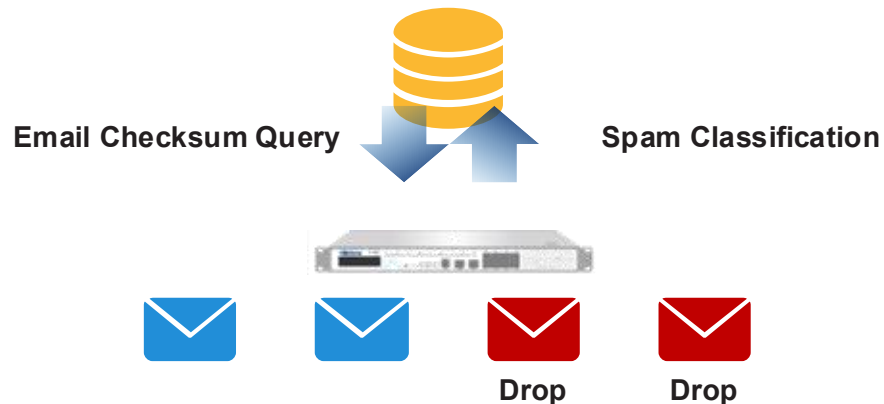
Application Control

Anti-Spam for Real-time Spam Classification and Prevention

Global Spam Collection (Partner)



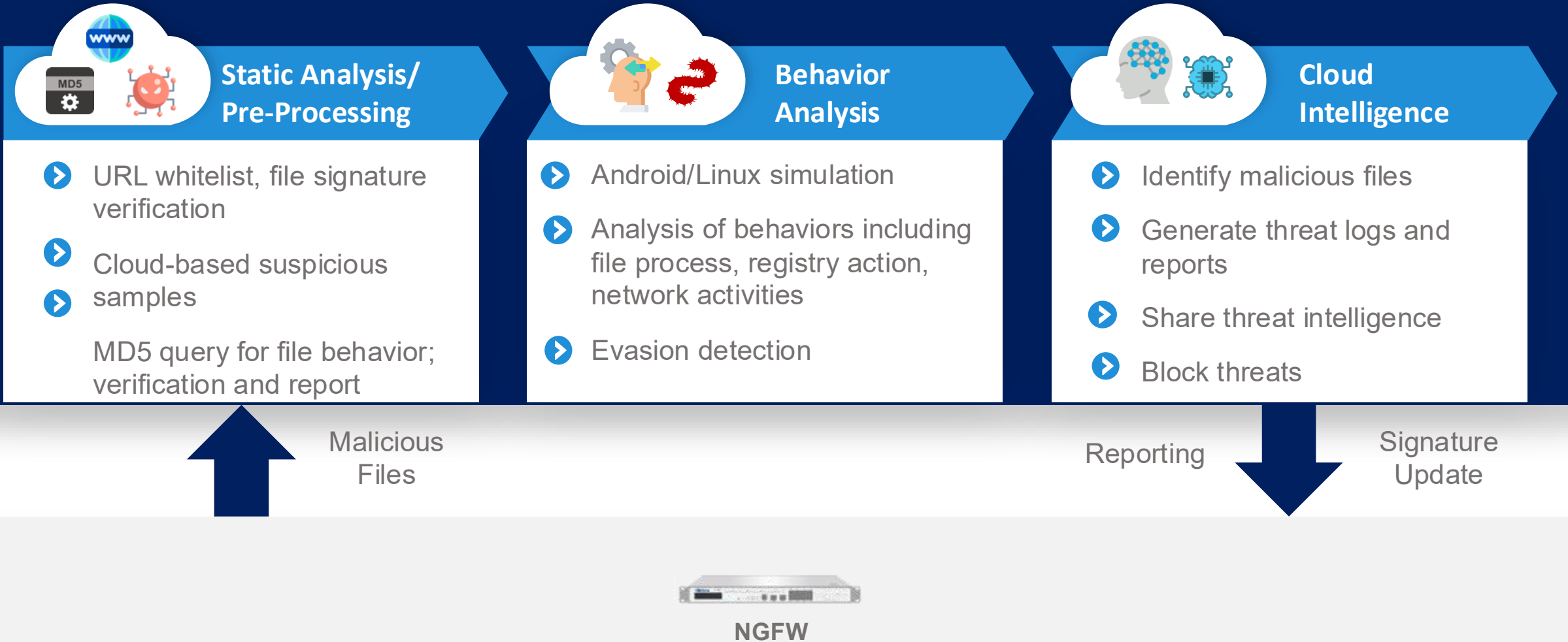
Cloud-Based Spam Database



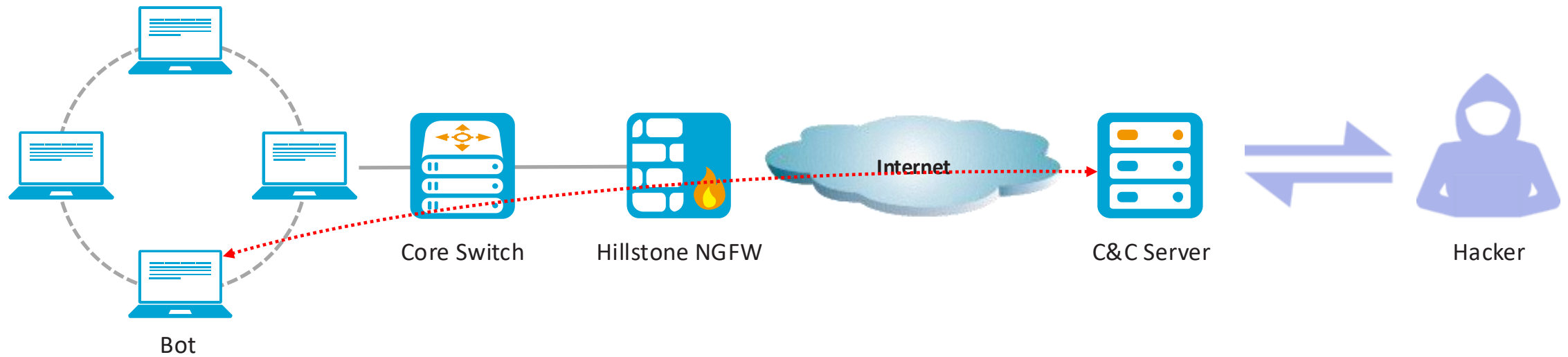
Key Features

- **Real-time Spam Classification and Prevention**
- Supported Spam classification: Confirmed Spam, Suspected Spam, Bulk Spam, Valid Bulk
- **Supports encrypted traffic spam detection**
- Works on both SMTP(S) and POP3(S) email protocols
- Inbound and outbound detection
- Whitelisting permits emails from trusted domains
- Support multiple languages, formats, or content of the message

Cloud Sandbox for Malicious File Detection and Prevention



Complete Botnet C&C Prevention



**C2 Address
Database**

DNS Sinkhole

**DNS Tunnel
Detection**

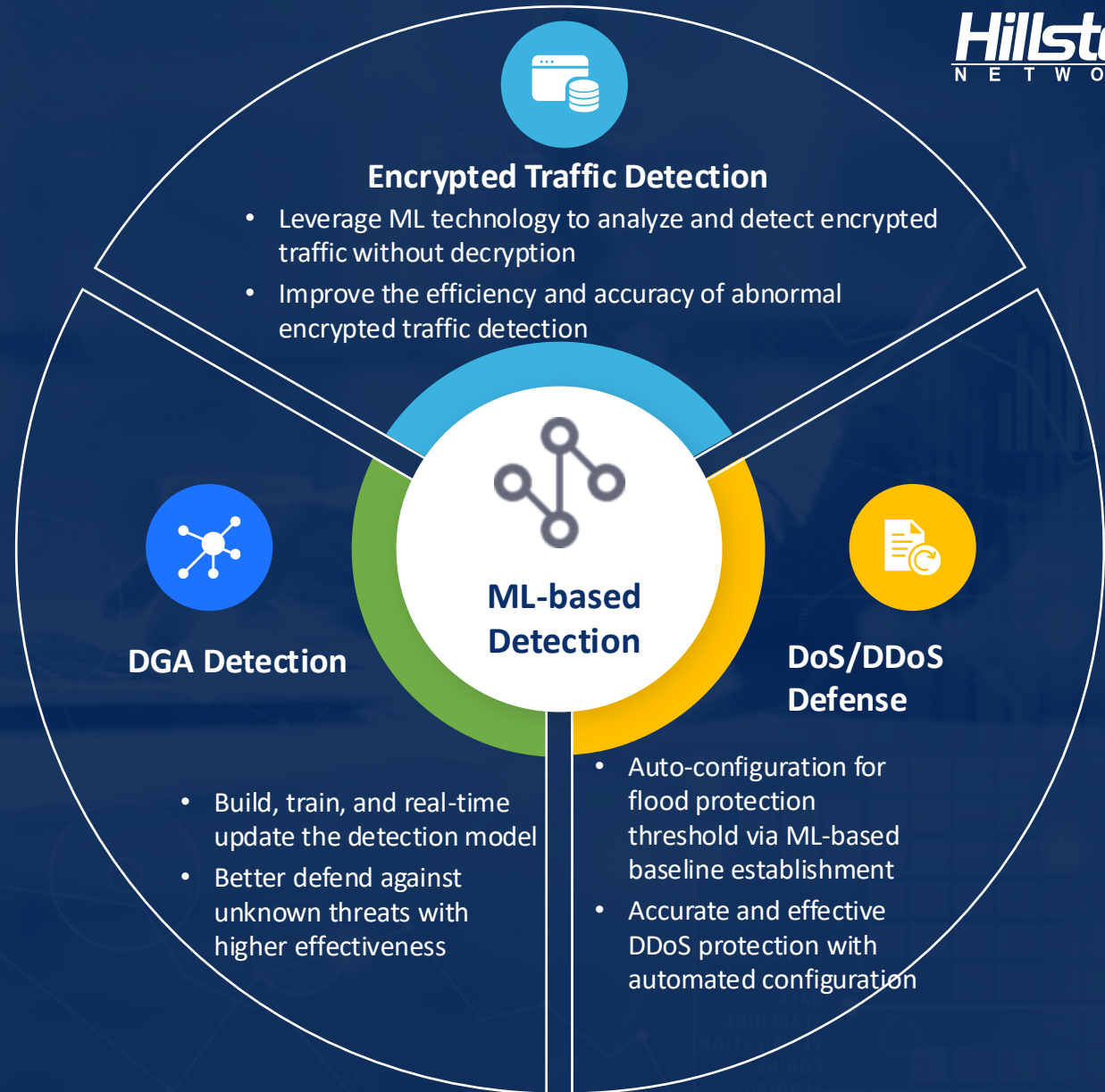
**DGA Domain
Detection**

ML-based Intelligent Threat Detection and Protection

Encrypted Traffic Detection

DoS/DDoS Defense

DGA Detection



A Future-Ready NGFW - Smart Policy Operation



A-Series with Advance Hardware Architecture



**High
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**Excellent
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**Advanced
Threat
Protection**

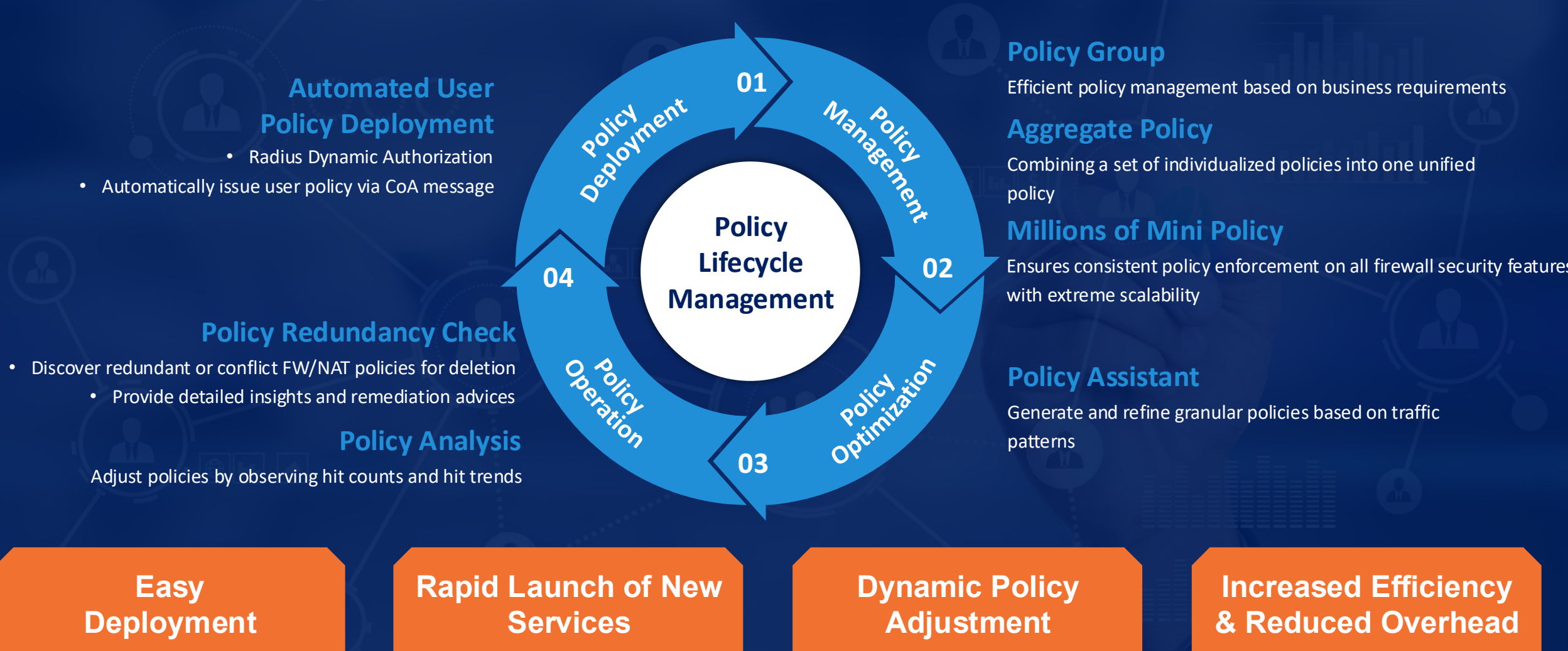


**Smart Policy
Operation**



**Multiple
Deployment
Scenarios**

Smart Policy Operation



A Future-Ready NGFW - Multiple Deployment Scenarios



A-Series with Advance Hardware Architecture



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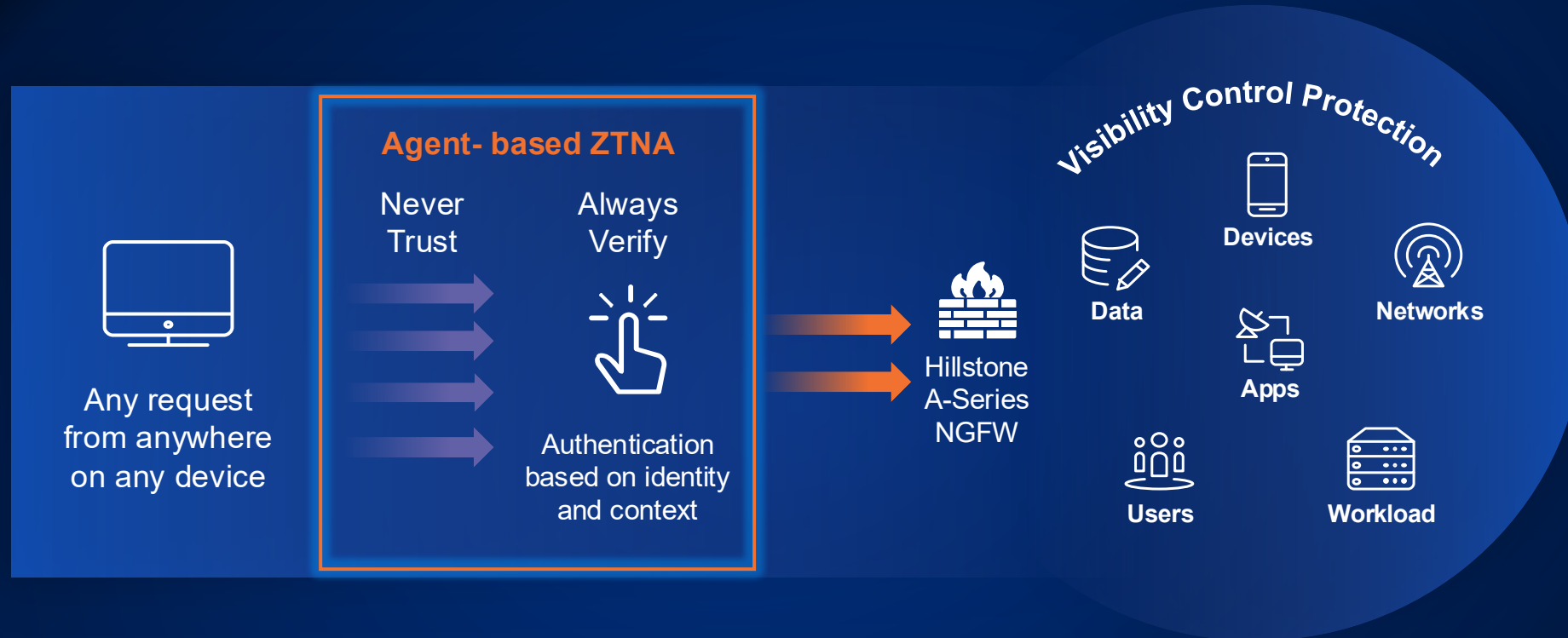


**Smart Policy
Operation**



**Multiple
Deployment
Scenarios**

Zero Trust Network Access (ZTNA) Solution



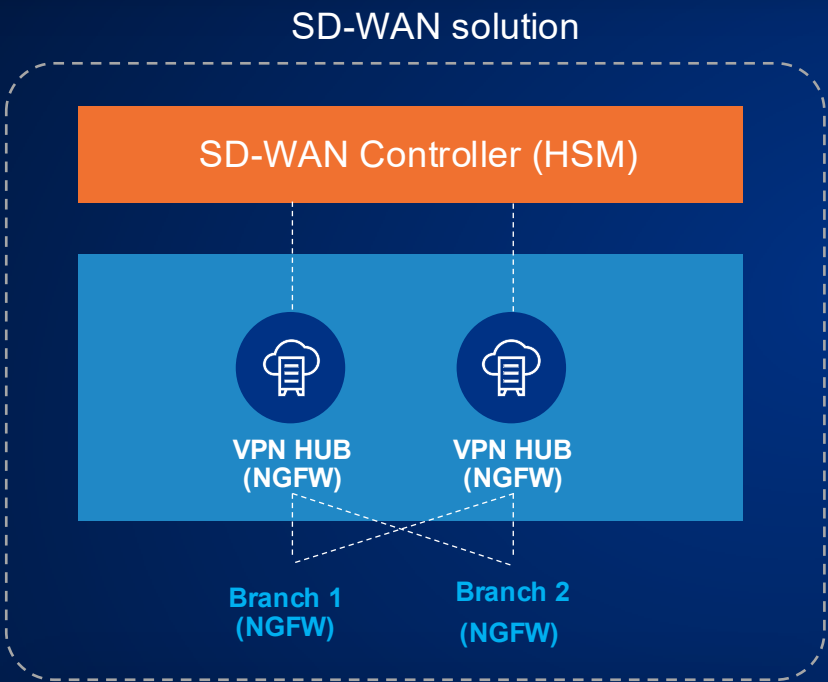
Highlights

- Identity-Based, Least-Privileged Secure Access
- Context-Aware, Adaptive Access Control
- Centralized and Efficient Management
- Award-Winning Enterprise-Grade Security Foundation

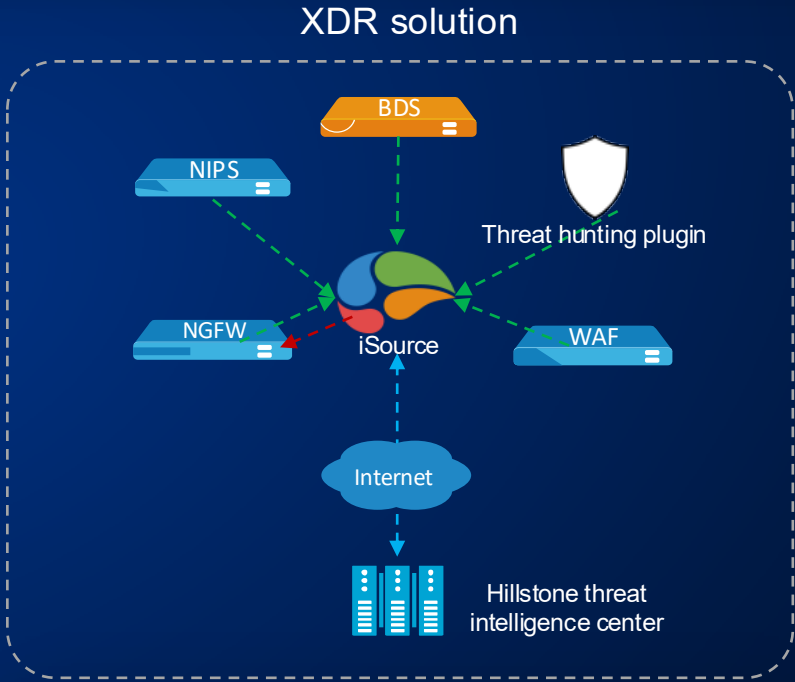
NGFW Fits into Hillstone Solutions



The integration of NGFW and other Hillstone security products enables multiple Hillstone solutions



➤ Efficient centralized management for multiple NGFW



➤ Promote joint protection against new types of attacks through integration with iSource and deployment in XDR solution

Enable Multiple Use Cases with High Performance

Network Edge



- › Powerful network security capabilities to defend against more advanced threats
- › Expedited execution of various security services with strong CPU power

Data Center



- › High throughput to handle massive volumes of traffic in data center
- › Twin-mode HA maintains high reliability of data center communication

SD-WAN



- › High security performance of built-in NGFW brings faster, lower-cost and secure local internet connections at remote location

Remote Access with ZTNA



- › Context and identity-aware, and least-privileged secure access control guarantee the security and effectiveness for the remote access

Fast, Effective, Efficient Future-Ready Security Protection with Hillstone A-Series NGFW



Hillstone Networks is Your Trusted Security Partner



Figure 1: Magic Quadrant for Network Firewalls



Gartner

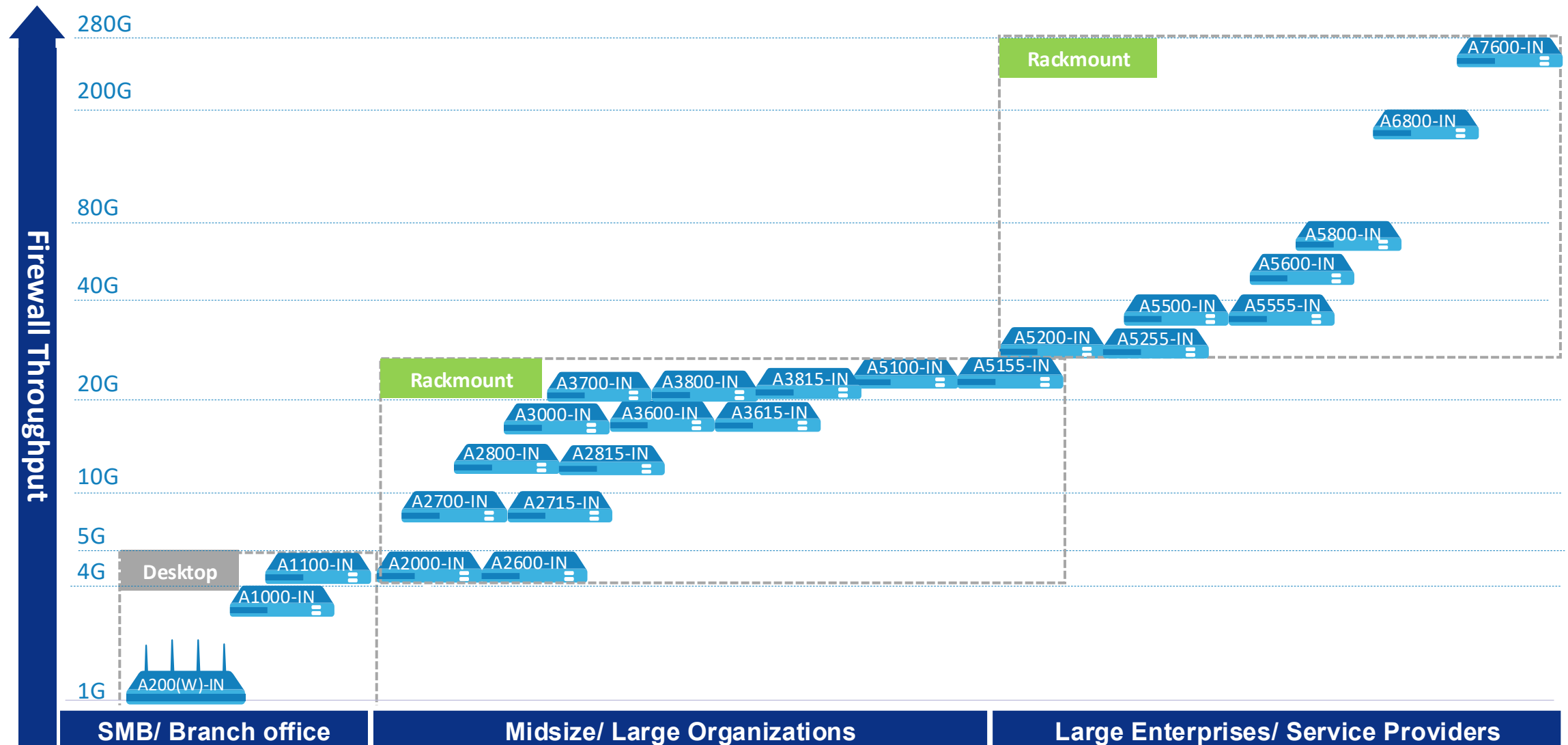
*A Visionary in the Gartner
Magic Quadrant for
Network Firewalls*

9 Consecutive
Years

*in Gartner Magic Quadrant
for Network Firewalls*

The Product Introduction

A-Series Product Positioning



The Hillstone A-Series NGFW: Specifications

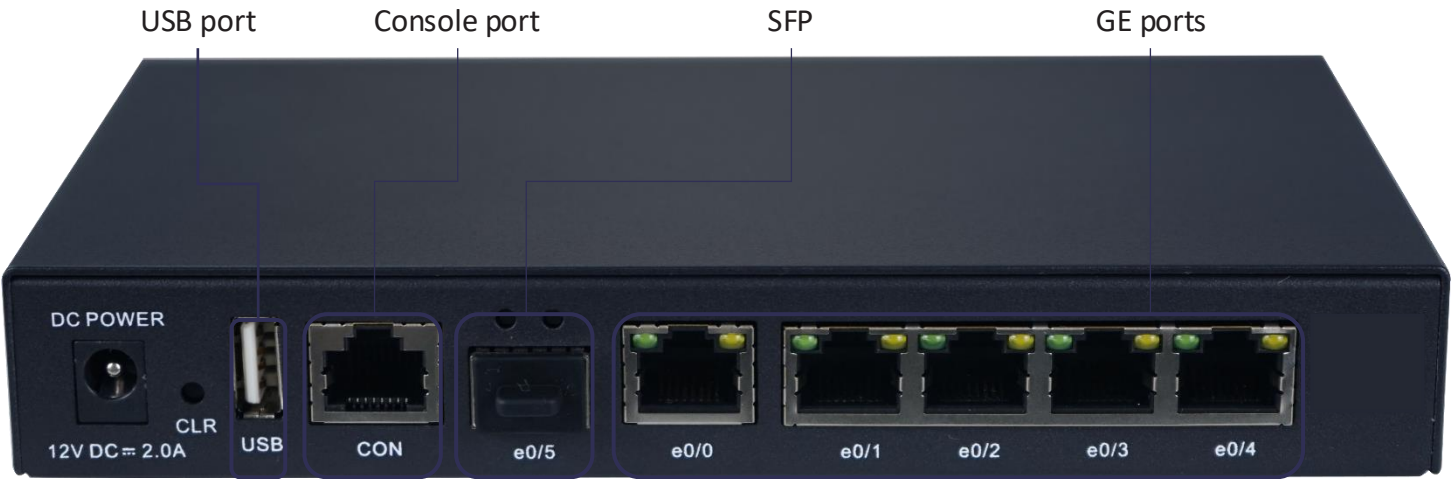


	<i>Desktop</i>			
	SG-6000-A200-IN	SG-6000-A200W-IN	SG-6000-A1000-IN	SG-6000-A1100-IN
Firewall Throughput	1 Gbps	1 Gbps	4 Gbps	5 Gbps
Maximum Concurrent Sessions	450,000	450,000	450,000	450,000
New Sessions/s	14,000	14,000	48,000	48,000
IPS Throughput	610 Mbps	610 Mbps	3 Gbps	2.8 Gbps
NGFW Throughput	400 Mbps	400 Mbps	1.5 Gbps	1.7 Gbps
Threat Protection Throughput	200 Mbps	200 Mbps	800 Mbps	800 Mbps
AV Throughput	550 Mbps	550 Mbps	1.8 Gbps	1.8 Gbps
IPsec VPN Throughput	590 Mbps	590 Mbps	2.5 Gbps	2.7 Gbps
Virtual Systems (Default/Max)	N/A	N/A	N/A	N/A
SSL VPN User Number	128	128	128	128
IPsec Tunnel Number	2,000	2,000	2,000	2,000
Management Ports	1 * Console Port, 1 * USB 2.0 Port	1 * Console Port, 1 x USB 2.0 Port	1 * Console Port, 2 * USB3.0 Ports	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45)
Fixed I/O Ports	1 * SFP, 5 * GE	1 * SFP, 5 * GE	4 * GE	8 * GE (including 1 bypass pair)
Wi-Fi/ 4G Dongle	4G Dongle	IEEE802.11a/b/g/n/ac, 4G Dongle	4G Dongle	4G Dongle
Available Slots for Expansion Modules	N/A	N/A	NA	NA
Expansion Module Option	N/A	N/A	NA	NA
Twin-mode HA	N/A	N/A	NA	NA
Local Storage	4 GB	4 GB	8 GB	8 GB
Expansion Storage Options	N/A	N/A	256 GB SSD	256 GB SSD
Power Specification	24W, Single AC (default)	24W, Single AC (default)	36W, Single AC	65W, Single AC
Power Supply	AC 100-240V, 50/60 Hz	AC 100-240V, 50/60 Hz	AC 100-240V, 50/60 Hz	AC 100-240V, 50/60 Hz
Form Factor	Desktop	Desktop	Desktop	Desktop
Weight	2.2 lb (0.6 kg)	2.2 lb (0.6 kg)	3.1 lb (1.4 kg)	3.1 lb (1.4 kg)
Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)
Relative Humidity	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing

A200 Front and Rear Panel



Power LED Status LED

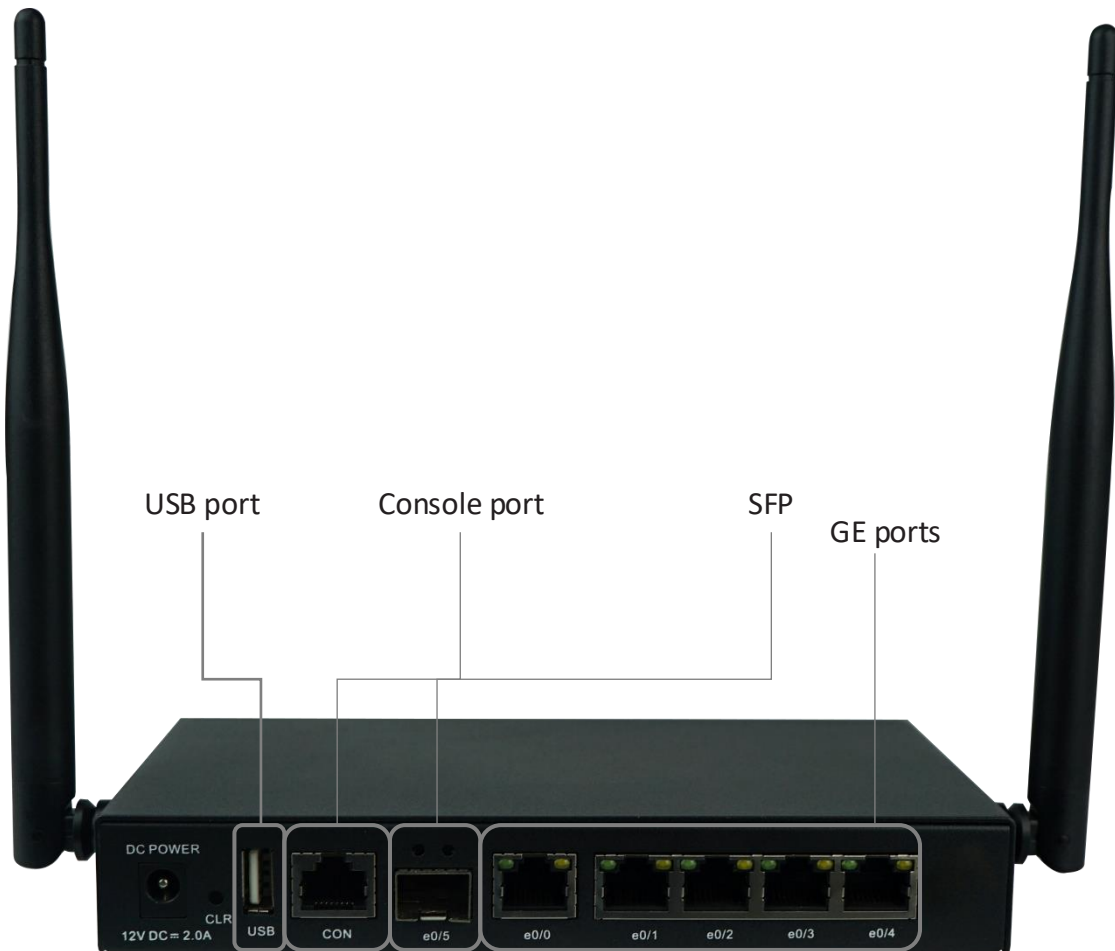


USB port Console port SFP GE ports

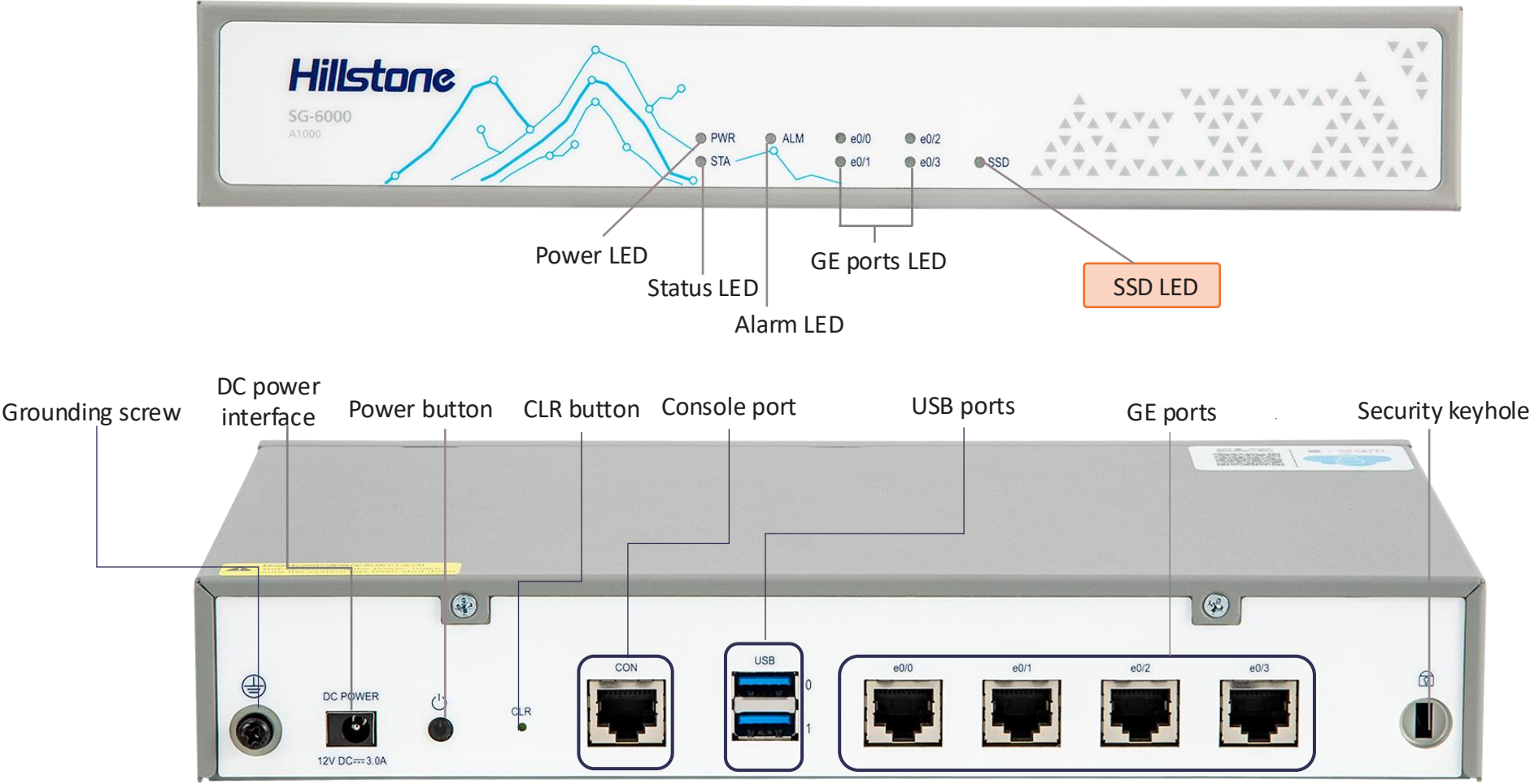
A200W Front and Rear Panel



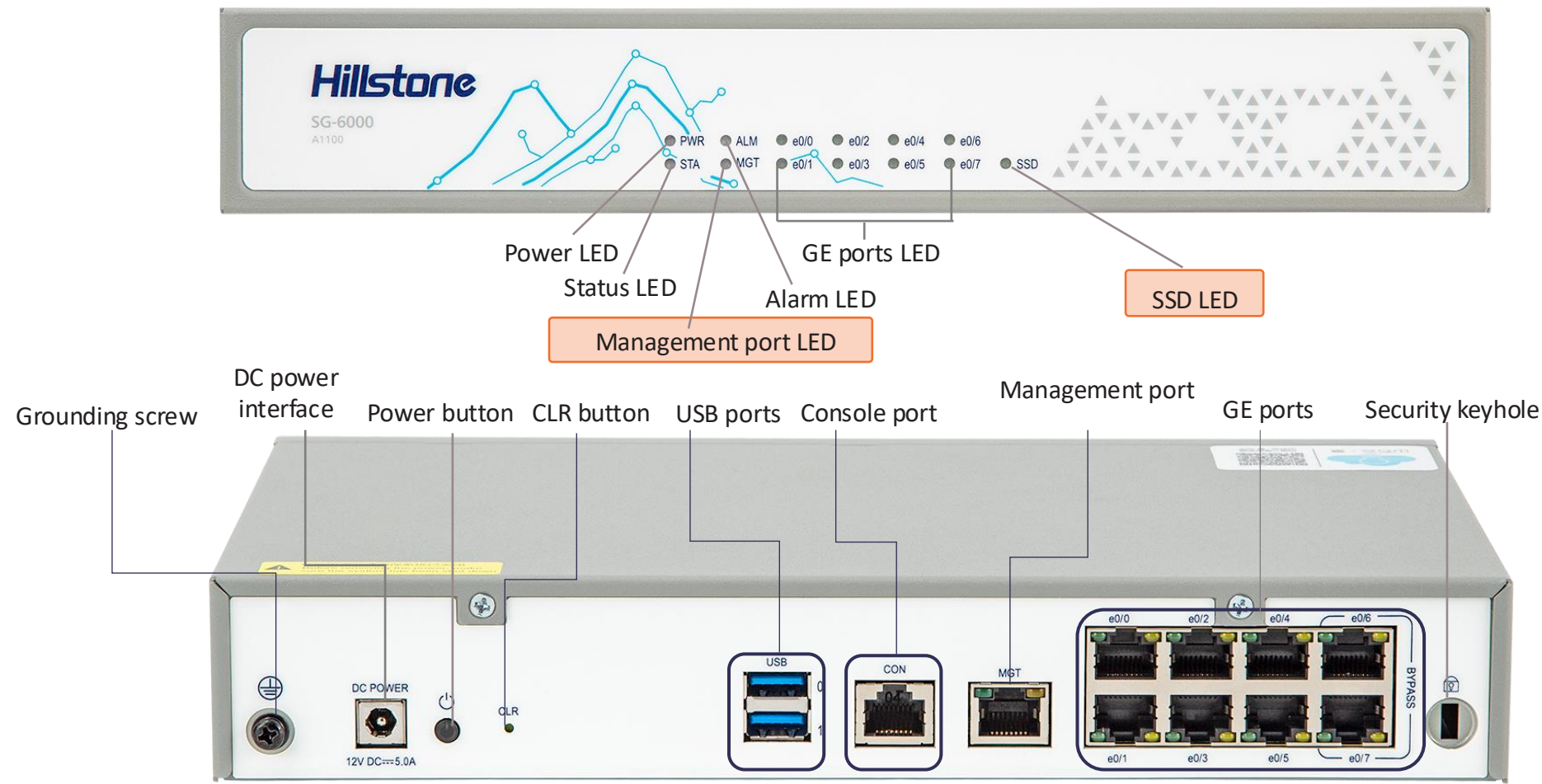
Power LED
Status LED
WLAN LED



A1000 Front and Rear Panel



A1100 Front and Rear Panel



The Hillstone A-Series NGFW: Specifications

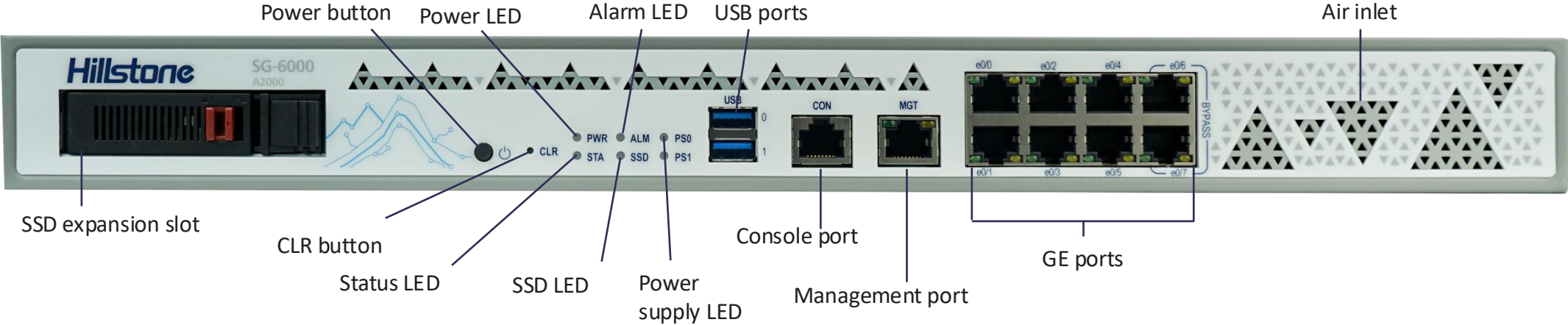


	Rackmount					
	SG-6000-A2000-IN	SG-6000-A2600-IN	SG-6000-A2700-IN	SG-6000-A2715-IN	SG-6000-A2800-IN	SG-6000-A2815-IN
Firewall Throughput	5 Gbps	5 Gbps	10 Gbps	10 Gbps	16 Gbps	16 Gbps
Maximum Concurrent Sessions	1.5 Million	1.85 Million	2.2 Million	2.2 Million	2.4 Million	2.4 Million
New Sessions/s	48,000	120,000	130,000	130,000	130,000	130,000
IPS Throughput	3Gbps	3.5 Gbps	8 Gbps	9 Gbps	10 Gbps	9 Gbps
NGFW Throughput	1.7 Gbps	3 Gbps	5 Gbps	6 Gbps	6.5 Gbps	6.5 Gbps
Threat Protection Throughput	1 Gbps	2.5 Gbps	3 Gbps	3 Gbps	3 Gbps	2.8 Gbps
AV Throughput	2 Gbps	3 Gbps	5 Gbps	6 Gbps	6.5 Gbps	6.5 Gbps
IPsec VPN Throughput	3 Gbps	3 Gbps	5 Gbps	5.2 Gbps	6 Gbps	5.3 Gbps
Virtual Systems (Default/Max)	1/5	1/5	1/5	1/5	1/5	1/5
SSL VPN User Number	1,000	2,000	4,000	4,000	4,000	4,000
IPsec Tunnel Number	4,000	6,000	6,000	6,000	6,000	6,000
Management Ports	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA Port (RJ45), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA Port (RJ45), 1 * MGT Port (RJ45)
Fixed I/O Ports	8 * GE (including 1 bypass pair)	8 * GE (including 1 bypass pair)	2 * SFP+ 8 * SFP 8 * GE	8 * SFP 8 * GE (including 2 bypass pairs)	2 * SFP+ 8 * SFP 8 * GE	8 * SFP 8 * GE (including 2 bypass pairs)
Wi-Fi/ 4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle
Available Slots for Expansion Modules	N/A	N/A	N/A	1	N/A	1
Expansion Module Option	N/A	N/A	N/A	IOC-A-F-4SFP+-IN IOC-A-F-8SFP+-IN IOC-A-F-8GE-IN	N/A	IOC-A-F-4SFP+-IN IOC-A-F-8SFP+-IN IOC-A-F-8GE-IN
Twin-mode HA	N/A	N/A	N/A	Yes	N/A	Yes
Local Storage	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB
Expansion Storage Options	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD
Power Specification	60W, Single AC (default), Dual AC (optional)	60W, Single AC (default), Dual AC (optional)	60W, Single AC (default), Dual AC (optional)	60W, Single AC (default), Dual AC (optional)	60W, Single AC (default), Dual AC (optional)	150W, Single AC (default), Dual AC (optional)
Power Supply	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz
Form Factor	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U
Weight	8.6 lb (3.9 kg)	8.6 lb (3.9 kg)	9 bl (4.1 kg)	10.0 lb (4.55 kg)	9 bl (4.1 kg)	10.0 lb (4.55 kg)
Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)	0°C~40°C	0°C~40°C	0°C~40°C	0°C~40°C
Relative Humidity	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing

A2000 / A2600 Front Panel



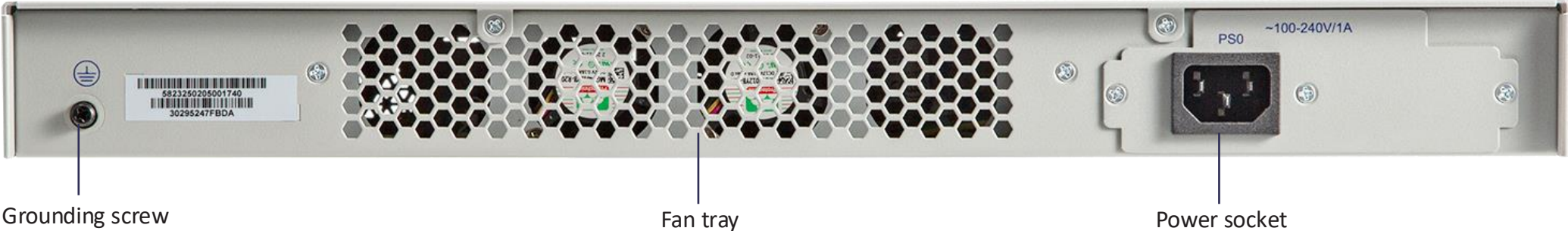
A2000
A2600



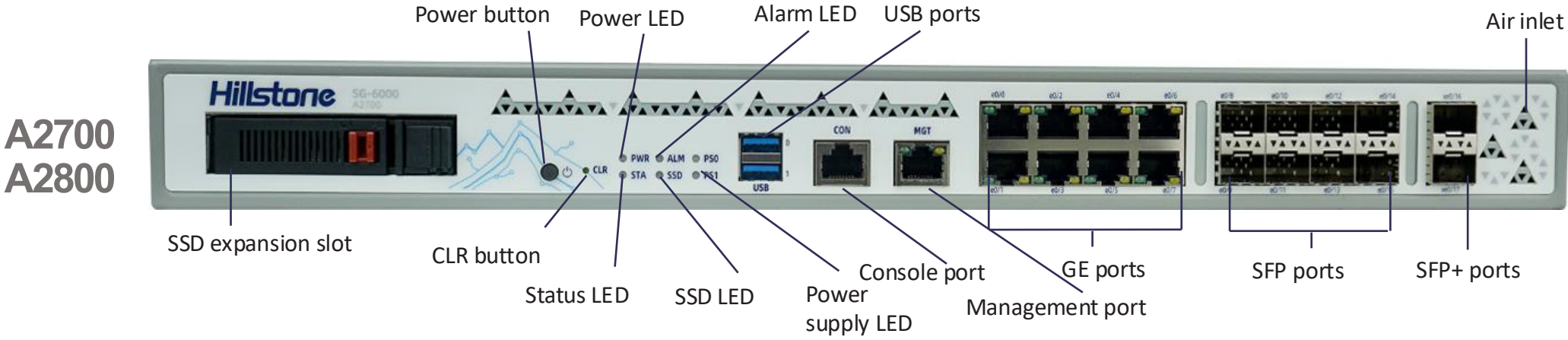
A2000 / A2600 Rear Panel



A2000
A2600



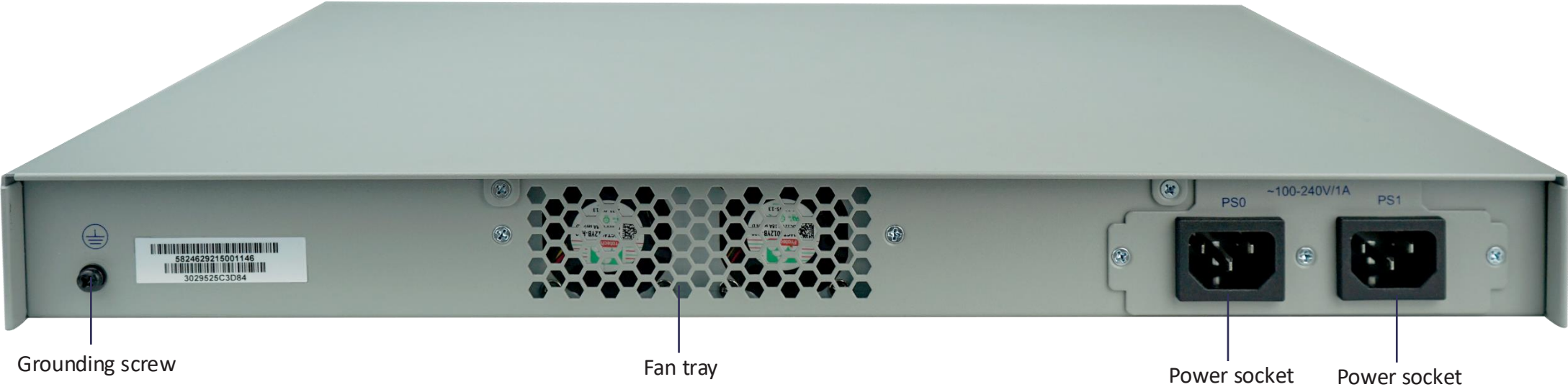
A2700 / A2800 Front Panel



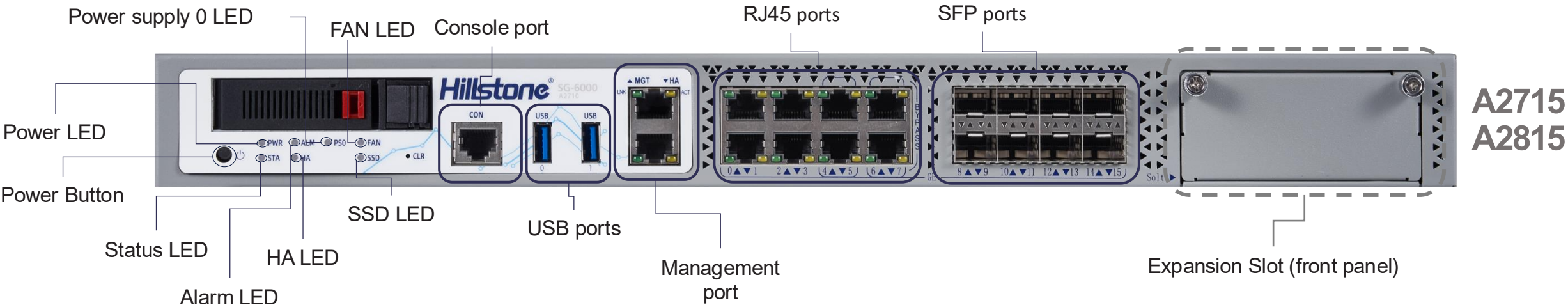
A2700 / A2800 Rear Panel



A2700
A2800



A2715 / A2815 Front Panel



A2715 / A2815 Rear Panel



A2715
A2815

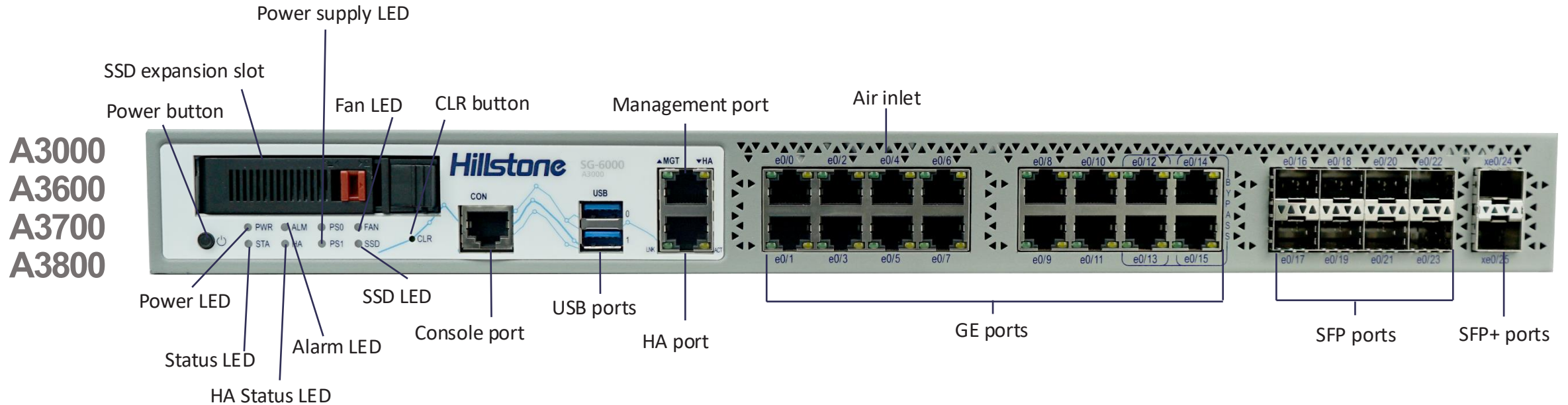


Grounding screw

Fan tray

Power socket

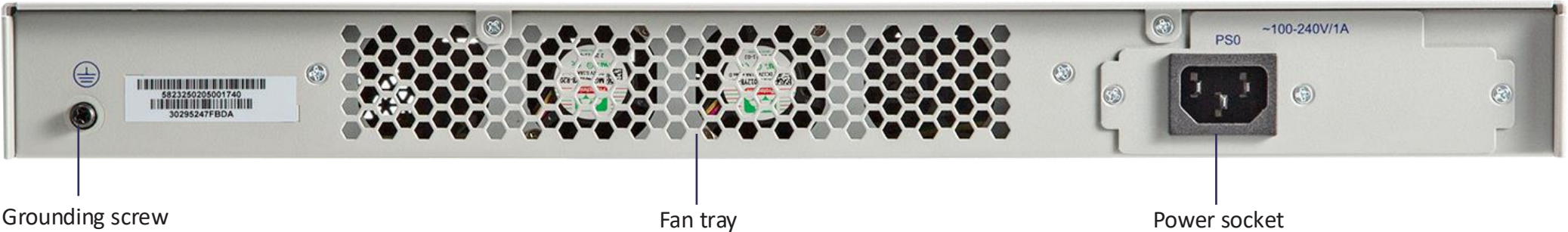
A3000 / A3600 / A3700 / A3800 Front Panel



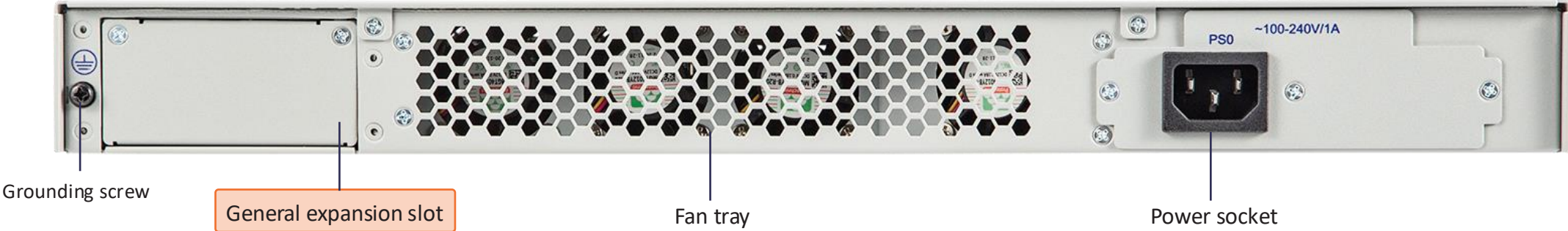
A3000 / A3600 / A3700 / A3800 Rear Panel



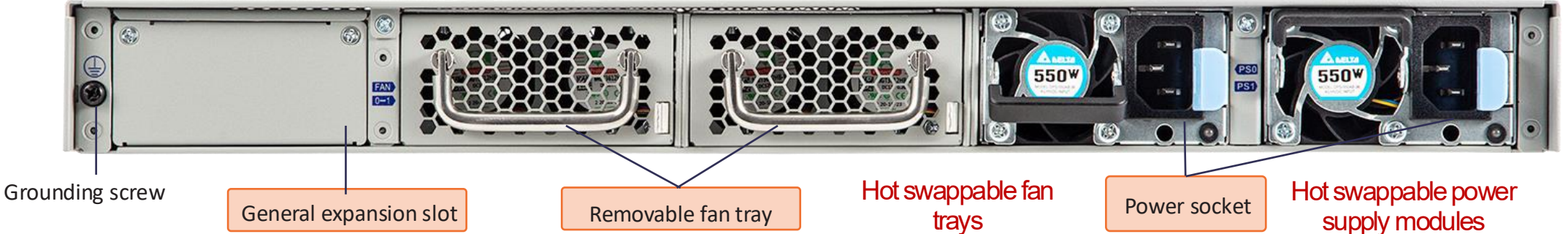
A3000
A3600



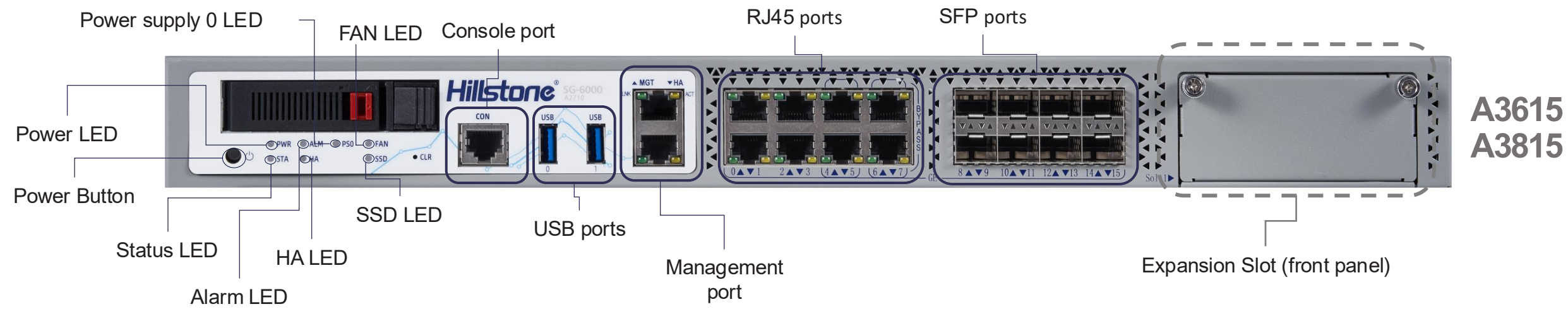
A3700



A3800



A3615 / A3815 Front Panel



A3615 Rear Panel



Grounding screw

Expansion Slot
(back panel)

Fan tray

Power socket

A3815 Rear Panel

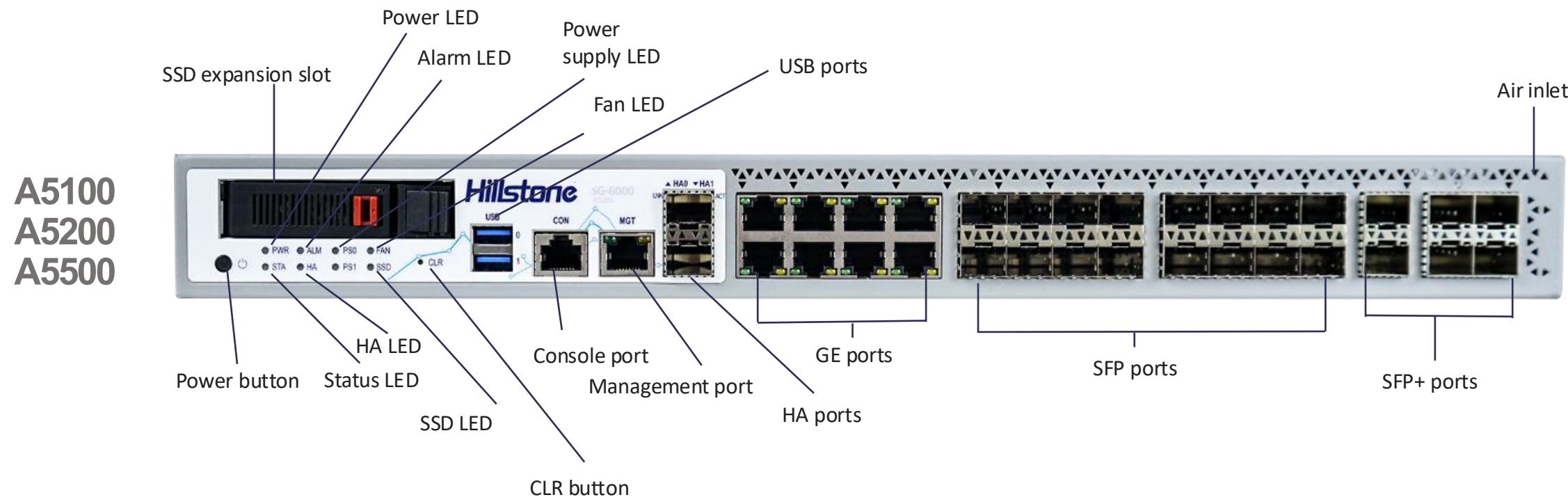


The Hillstone A-Series NGFW: Specifications



	Rackmount							
	SG-6000-A5100-IN	SG-6000-A5155-IN	SG-6000-A5200-IN	SG-6000-A5255-IN	SG-6000-A5500-IN	SG-6000-A5555-IN	SG-6000-A5600-IN	SG-6000-A5800-IN
Firewall Throughput (without/with expansion module)	25/50 Gbps	25/50 Gbps	32/65 Gbps	32/65 Gbps	40/80 Gbps	40/80 Gbps	60/85 Gbps	80/95 Gbps
Maximum Concurrent Sessions	9 Million	9 Million	15 Million	15 Million	18 Million	18 Million	25 Million	30 Million
New Sessions/s	480,000	490,000	600,000	650,000	700,000	700,000	900,000	1,000,000
IPS Throughput	20/30 Gbps	21/30 Gbps	25/35 Gbps	27/40 Gbps	35/45 Gbps	35/50 Gbps	45/65 Gbps	50 Gbps
NGFW Throughput	20 Gbps	20 Gbps	25 Gbps	25 Gbps	30 Gbps	30 Gbps	40 Gbps	50 Gbps
Threat Protection Throughput	12 Gbps	12 Gbps	14 Gbps	15 Gbps	17 Gbps	17 Gbps	25 Gbps	25 Gbps
AV Throughput	15 Gbps	15 Gbps	20 Gbps	25 Gbps	30 Gbps	29 Gbps	35 Gbps	35 Gbps
IPsec VPN Throughput	15 Gbps	18 Gbps	25 Gbps	25 Gbps	30 Gbps	30 Gbps	40 Gbps	45 Gbps
Virtual Systems (Default/Max)	1/250	1/250	1/250	1/250	1/250	1/250	1/500	1/500
SSL VPN User Number	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
IPsec Tunnel Number	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Management Ports	1 * Console Port, 2 * USB3.0 Ports, 2 * HA Ports (SFP+), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA port (SFP), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 2 * HA Ports (SFP+), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA port (SFP), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 2 * HA Ports (SFP+), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA port (SFP), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA Port (SFP), 1 * MGT Port (RJ45)	1 * Console Port, 2 * USB3.0 Ports, 1 * HA Port (SFP), 1 * MGT Port (RJ45)
Fixed I/O Ports	6 * SFP+, 16 * SFP, 8 * GE (including 2 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (including 4 bypass pairs)	6 * SFP+, 16 * SFP, 8 * GE (including 2 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (including 4 bypass pairs)	6 * SFP+, 16 * SFP, 8 * GE (including 2 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (including 4 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (including 4 bypass pairs)	2 * QSFP+, 16 * SFP+, 8 * GE (including 4 bypass pairs)
Wi-Fi/ 4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle	4G Dongle
Available Slots for Expansion Modules	1	1	1	1	1	1	1	1
Expansion Module Option	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN
Twin-mode HA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Local Storage	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB
Expansion Storage Options	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD
Power Specification	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)
Power Supply	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V
Form Factor	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U	Rackmount, 1U
Weight	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)	18.7 lb (8.5 kg)
Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)
Relative Humidity	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing	10-95% non-condensing

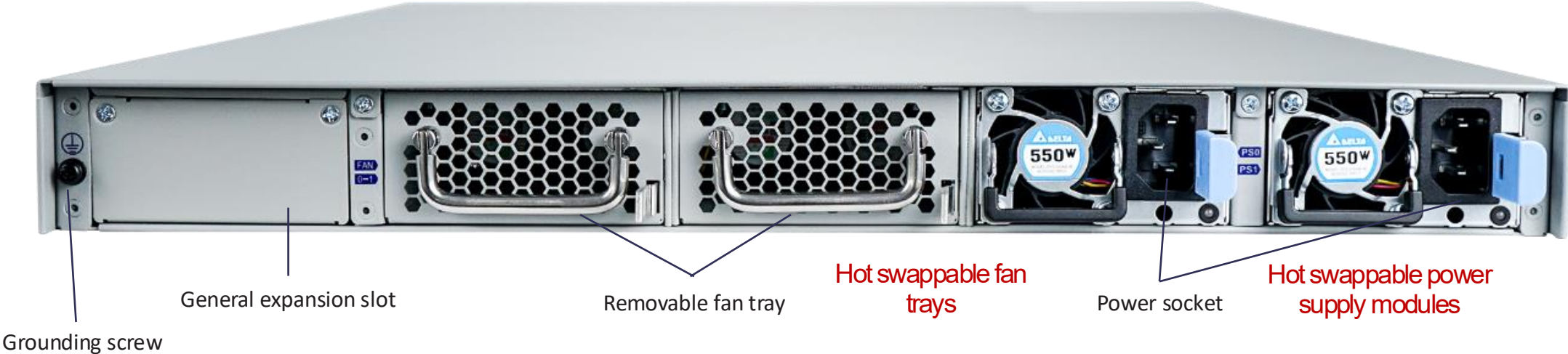
A5100 / A5200 / A5500 Front Panel



A5100 / A5200 / A5500 Rear Panel



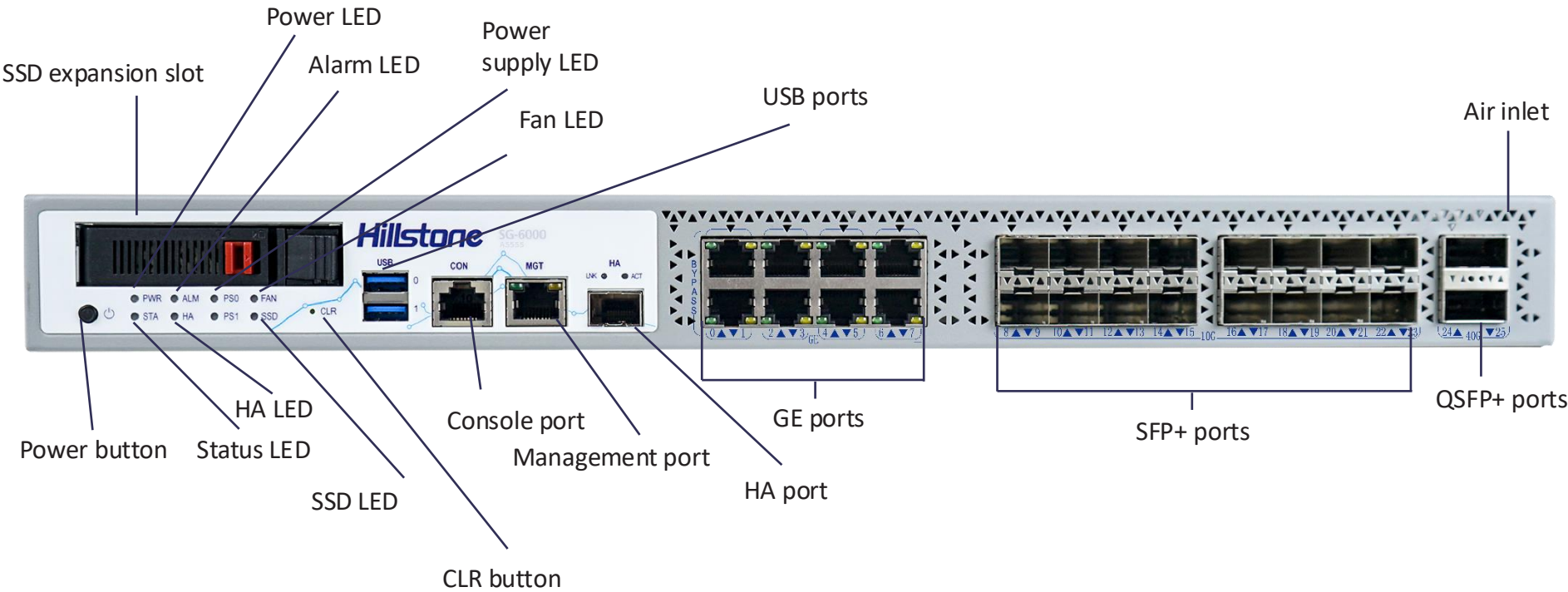
A5100
A5200
A5500



A5155 / A5255 / A5555 / A5600 / A5800 Front Panel



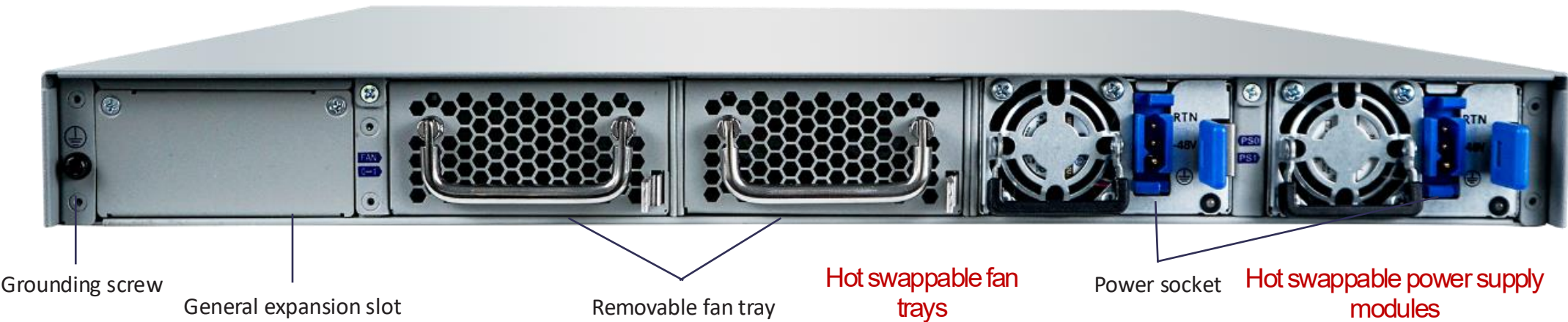
A5155
A5255
A5555
A5600
A5800



A5155 / A5255 / A5555 / A5600 / A5800 Rear Panel



A5155
A5255
A5555
A5600
A5800



The Hillstone A-Series NGFW: Specifications

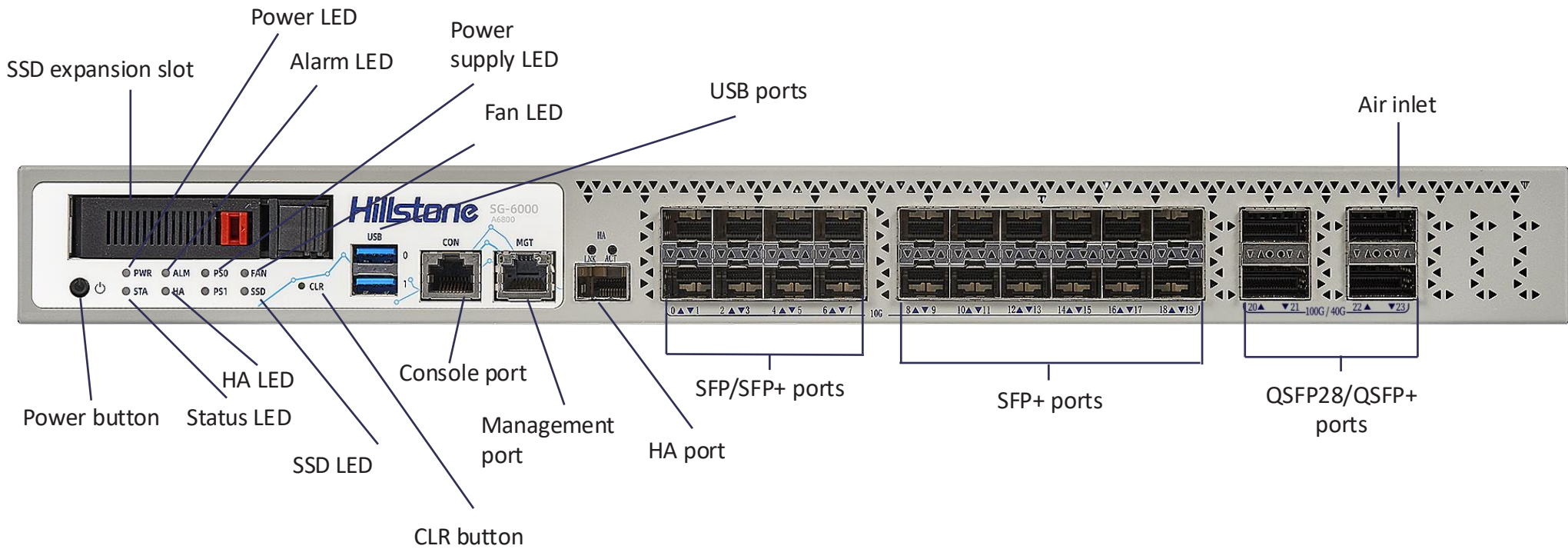


	Rackmount	
	SG-6000-A6800-IN	SG-6000-A7600-IN
Firewall Throughput (without/with expansion module)	200 Gbps	280/320 Gbps
Maximum Concurrent Sessions	35 Million	42 Million
New Sessions/s	900,000	900,000
IPS Throughput	80 Gbps	80 Gbps
NGFW Throughput	80 Gbps	80 Gbps
Threat Protection Throughput	30 Gbps	30 Gbps
AV Throughput	45 Gbps	45 Gbps
IPsec VPN Throughput	45 Gbps	45 Gbps
Virtual Systems (Default/Max)	1/500	1/500
SSL VPN User Number	10,000	10,000
IPsec Tunnel Number	20,000	20,000
Management Ports	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45), 1 * HA port (SFP)	1 * Console Port, 2 * USB3.0 Ports, 1 * MGT Port (RJ45), 1 * HA port (SFP)
Fixed I/O Ports	4 * QSFP28 (or 2 * QSFP+, 2 * QSFP28) 12 * SFP+ 8 * SFP+/SFP	4 * QSFP28 (or 2 * QSFP+, 2 * QSFP28) 12 * SFP+ 8 * SFP+/SFP
Wi-Fi/ 4G Dongle	N/A	N/A
Available Slots for Expansion Modules	1	1
Expansion Module Option	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN	IOC-A-4SFP+-IN, IOC-A-2QSFP+-IN, IOC-A-2MM-BE-IN, IOC-A-2SM-BE-IN
Twin-mode HA	Yes	Yes
Local Storage	64 GB	64 GB
Expansion Storage Options	480GB / 960GB / 1.92TB SSD	480GB / 960GB / 1.92TB SSD
Power Specification	550W, Dual AC (default), Dual DC (optional)	550W, Dual AC (default), Dual DC (optional)
Power Supply	AC 100-240 V, 50/60 Hz DC -36~-72 V	AC 100-240 V, 50/60 Hz DC -36~-72 V
Form Factor	Rackmount, 1U	Rackmount, 1U
Weight	20.3 lb (9.2 kg)	20.3 lb (9.2 kg)
Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)
Relative Humidity	10-95% non-condensing	10-95% non-condensing

A6800 / A7600 Front Panel



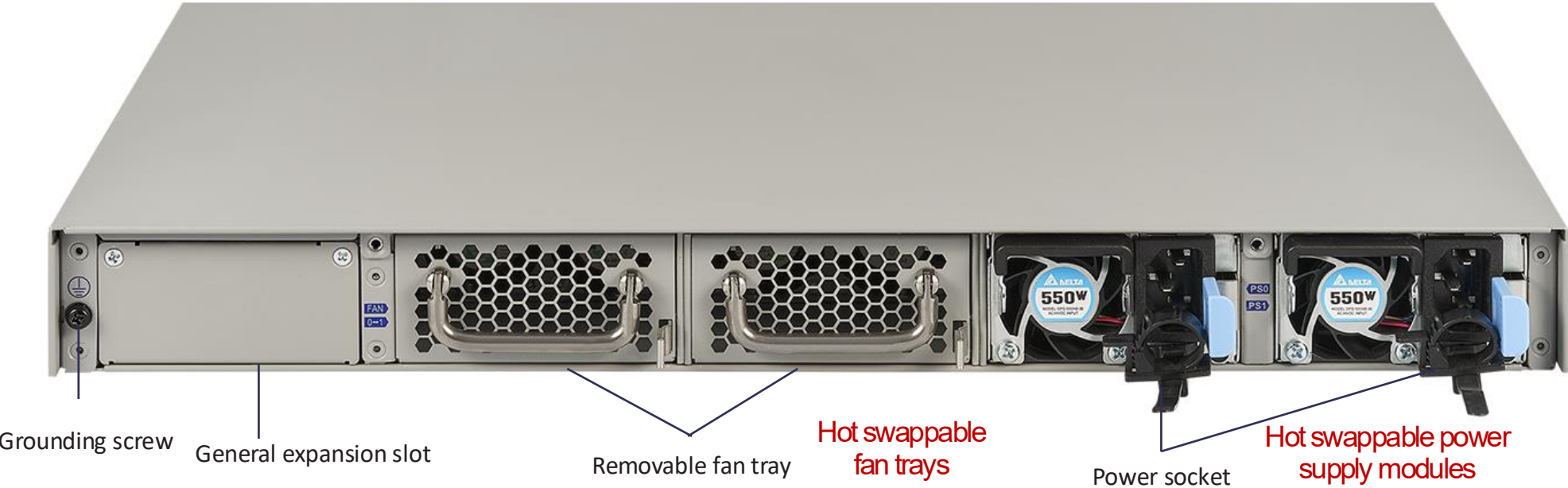
A6800
A7600



A6800 / A7600 Rear Panel

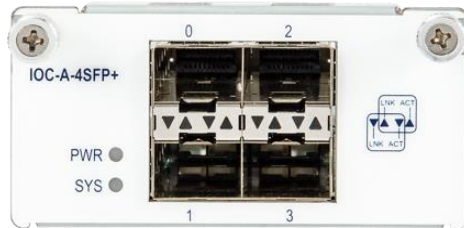


A6800
A7600



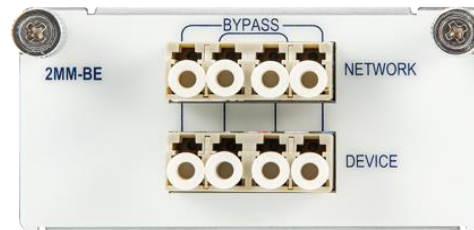
Expansion Modules

IOC-A-4SFP+-IN



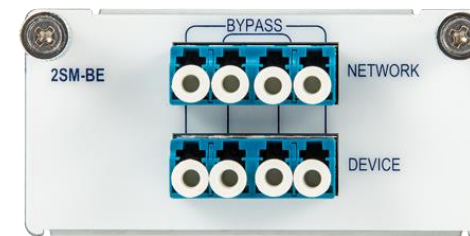
4SFP+ expansion module for rear panel
(adaptive to SFP module)

IOC-A-2MM-BE-IN



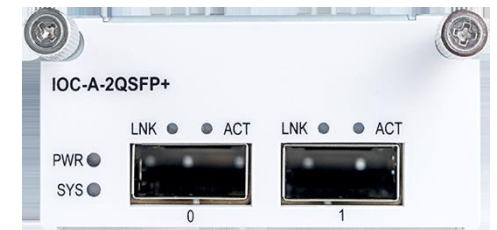
Multi-mode bypass expansion module for
rear panel

IOC-A-2SM-BE-IN



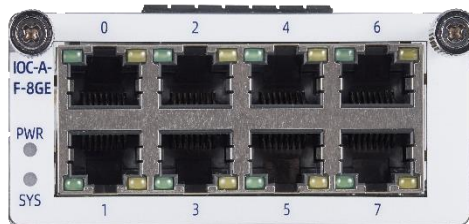
Single-mode bypass expansion module for
rear panel

IOC-A-2QSFP+-IN



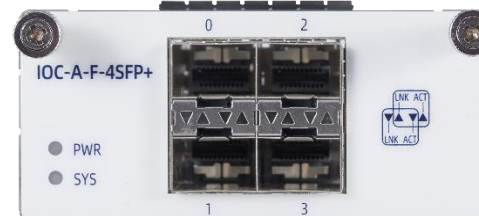
2QSFP+ expansion module for rear
panel

IOC-A-F-8GE-IN



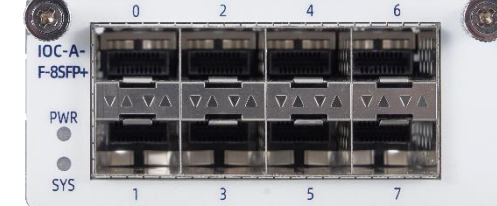
8GE (including 4 bypass pairs) expansion
module for front panel

IOC-A-F-4SFP+-IN



4SFP+ expansion module for front panel

IOC-A-F-8SFP+-IN



8SFP+ expansion module for front panel

Expansion SSD: Images



256 GB SSD
For A1000, A1100



480 GB / 960 GB / 1.92 TB SSD
For A2000, A2600, A2700, A2715, A2800, A2815, A3000, A3600, A3615, A3700, A3800, A3815, A5100, A5155, A5200, A5255, A5500, A5555, A5600, A5800, A6800, A7600

Hillstone Network Intrusion Prevention System (NIPS) S-Series



Integrative Cybersecurity
Visionary. AI-powered. Accessible.

| Agenda

- Business Problem
- Hillstone NIPS Value Proposition
- Hillstone NIPS Portfolio
- Deployment Scenarios & Winning Cases

1

Business Problem

High-risk Vulnerabilities Emerge Explosively



Heartbleed Bug



Shellshock Bash Vulnerability



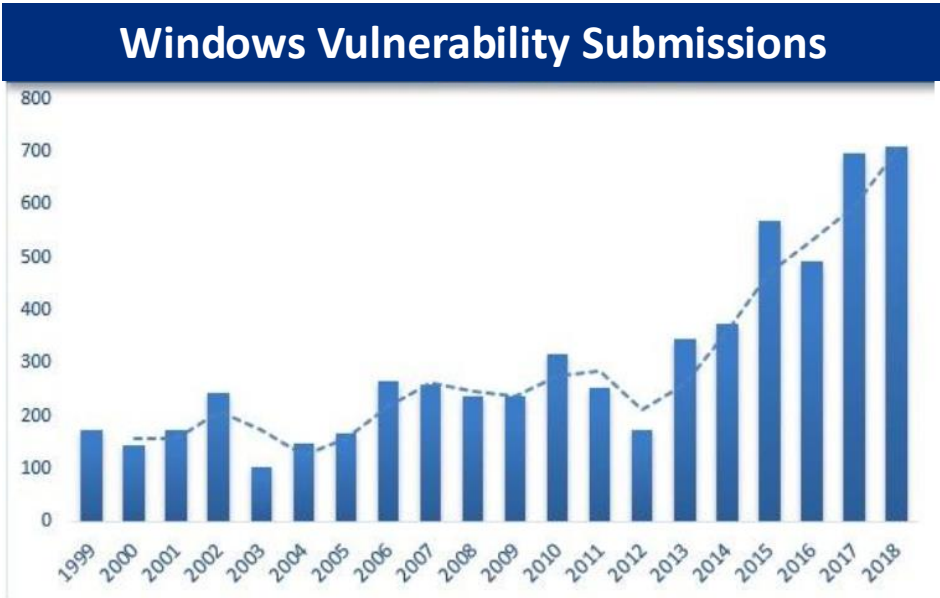
Java Deserialization Vulnerability



IIS 7 HTTP.sys



Redis Unauthorized Access Vulnerability



The number of vulnerabilities submitted for the Windows operating system has entered an explosive growth trend

IDPS is Even More Relevant in Today's Network Security Landscape

- Dedicated IDPS
- Layered defense
- High performance levels with sustained throughput
- For internal network segmentation
- IDPS solution from different vendor
- 85% of new stand-alone IDPSs will be in data centers (cloud or on-premises).
- More than 40% of new IDPS deployments are not on the perimeter. Gartner believes that, by YE21, 80% of new stand-alone IDPSs will be deployed for internal use cases, up from about 40% in 2018

Market Guide for Intrusion Detection and Prevention Systems | 1 July 2019

Stand-alone IDPS solutions are ideal when you need improved blocking and performance

When Do You Use an IDPS Versus an NGFW?

■ ■ ■ Intrusion Detection and Prevention System

- ✓ When Best-of-Breed protection is desired
- ✓ When different staff manage the IPS from the firewalls
- ✓ When high-performance throughput is required
- ✓ To enable network segmentation on parts of the internal network
- ✓ As an IDS solution on parts of the internal network

■ ■ ■ Next-Generation Firewall

- ✓ When a single view of network threats is required
- ✓ When performance and throughput is not a priority
- ✓ When application awareness is required (traffic visibility and control)
- ✓ When malware monitoring is a requirement
- ✓ When user identity awareness is required

2

Hillstone NIPS Value Proposition

Hillstone is Representative Vendor in Gartner Market Guide for Intrusion Detection and Prevention Systems



Gartner.

Market Guide for Intrusion Detection and Prevention Systems

Published: 1 July 2019 ID: G00385800

Analyst(s): Craig Lawson, John Watts

IDPS offers the best detection efficacy and performance network security, but firewalls are absorbing IDPS on the perimeter. Security and risk management leaders should seek innovation in advanced analytics, augmenting vulnerability management and internal segmentation from their IDPS solution.

Key Findings

- Advanced threat detection and IDPSs continue to combine into products offering both capabilities, broadening potential use cases.
- Intrusion detection and prevention systems (IDPSs) remain a popular use case for threat detection (IDS mode), while blocking threats and protecting IaaS instances continues to drive adoption (IPS mode) for new deployments.

“ABD is Hillstone’s analytics approach that does network baselining, looking for abnormal behavior.

The sandbox is also interesting for the IDPS market because it allows for “fuzzy” malware behavior signatures to be used to help convict new iterations of existing families of malware.”

Source: Gartner (July 2019)

Hillstone NIPS – A Comprehensive Network Intrusion Prevention System



New Hardware Platform

01 Complete Network Threat Detection and Defense

06 Easy Deployment with Minimum Network Interruption

05 Simplified and Centralized Management for Efficient Security Operation



02 Advanced Threat Protection Throughout the Threat Lifecycle

03 Better Understanding with Rich and Granular Reporting

04 High Reliability to Ensure Reliable Operation of the Network

High Performance of SSL Encrypted Traffic



Improved hardware acceleration capability of SSL decryption

HTTPS traffic increasing



New attacking methods



Key security requirements



Lower cost

With SSL decryption hardware acceleration capability

NIPS provide comprehensive threat protection to SSL encrypted traffic through built-in encryption/decryption module



Security and visibility

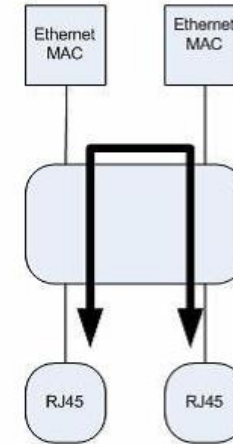
Provide detection of systems, applications, malware and clients



Massive Processing Guarantee

High performance application layer throughput

- 01** High-density interface
S5500-IN comes with 8×GE (4 pairs of bypass) + 16×SFP+ + 2 x QSFP+ fixed I/O Ports
- 02** Most models support expansion slot
- 03** Support optical/electrical interface hardware bypass
- 04** Built-in large-capacity storage, storage can be expanded on demand



Fully support bypass, guarantee the business continuity in serial deployment

Context-Aware Detection



User awareness

Accurately identify defined and undefined users, and analyze user traffic and concurrent connections



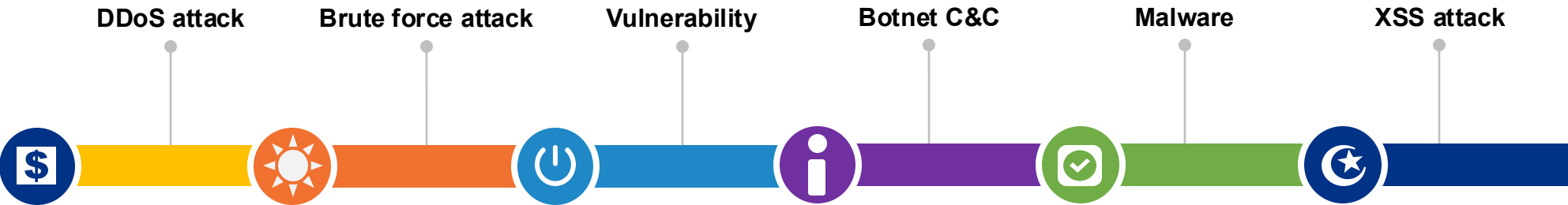
Application awareness

Accurately identify 3000+ network applications, hundreds of mobile/cloud applications, including applications with SSL encrypted traffic



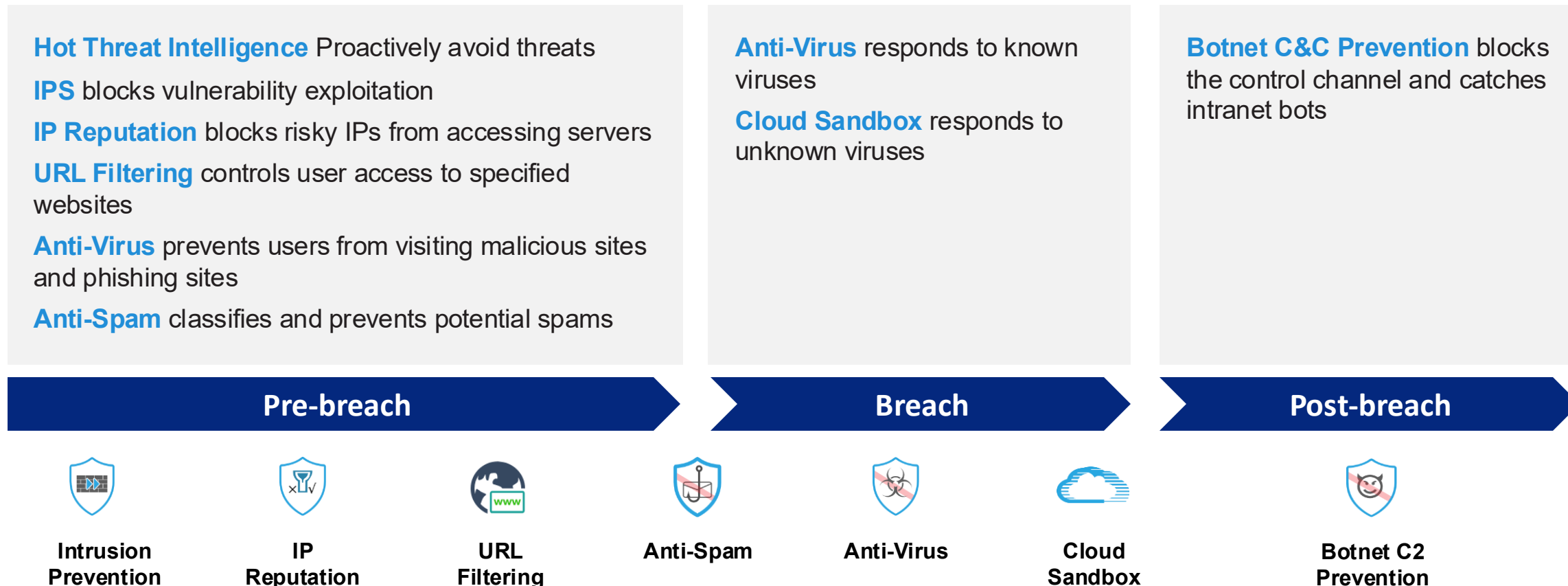
Risk awareness

Provide multi-dimensional information including risk level, known vulnerabilities, large bandwidth consumption, file transfer behavior



Nearly 10,000 intrusion rules and tens of millions of virus signature database to detect and prevent different attacks

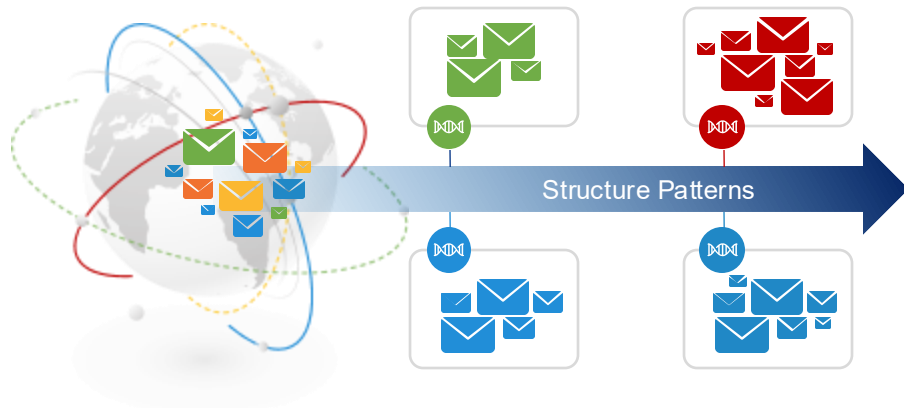
Advanced Threat Protection Throughout the Threat Lifecycle



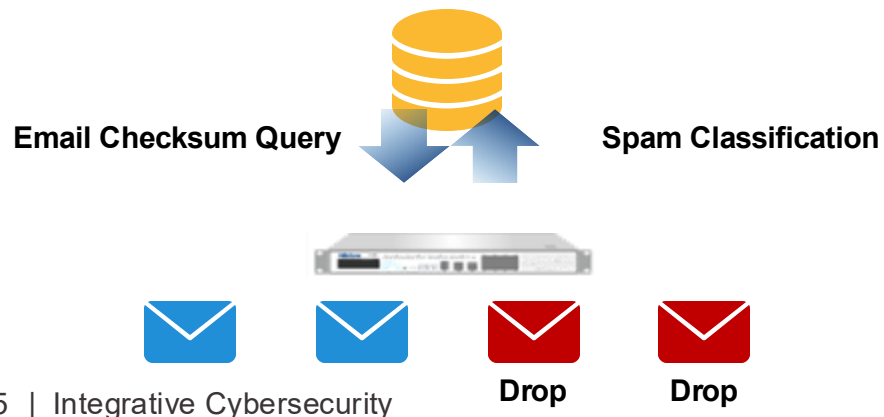
Works in conjunction with Hillstone NGFW

Anti-Spam for Real-time Spam Classification and Prevention

Global Spam Collection (Partner)



Cloud-Based Spam Database

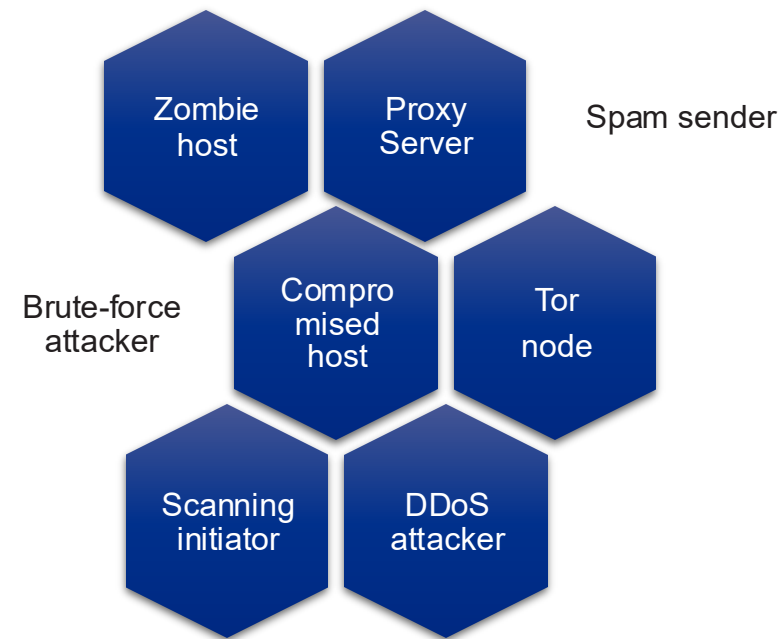


Key Features

- **Real-time Spam Classification and Prevention**
- Supported Spam classification: Confirmed Spam, Suspected Spam, Bulk Spam, Valid Bulk
- **Support encrypted traffic spam detection**
- Regardless of the language, format, or content of the message
- Works on both SMTP and POP3 email protocols
- Inbound and outbound detection
- White lists to allow emails from trusted domain

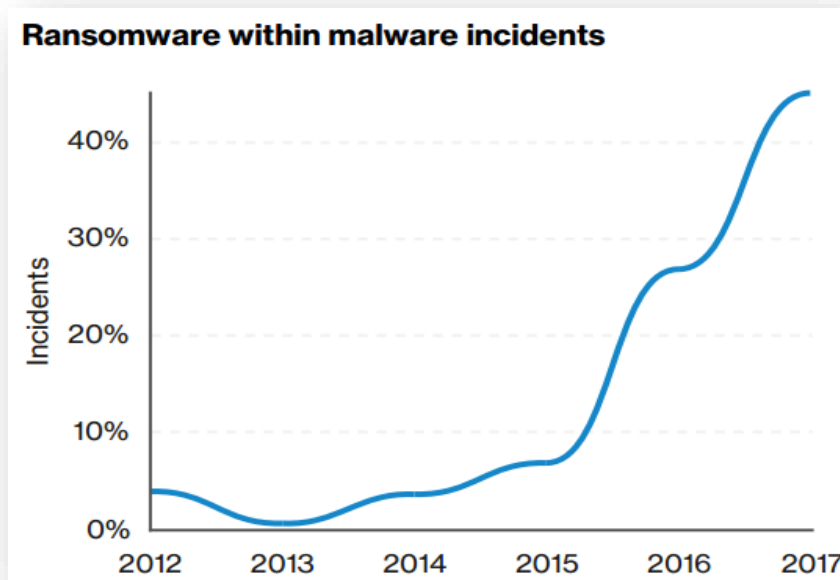
IP Reputation – Multiple Risk IP Identification and Blocking

- **IP Threat Intelligence:** record all types of risky IP traffic logs and block risky IP access to the intranet
- **Multiple risk IP identification:** zombie hosts, spammers, etc.
- **Update IP reputation signatures every hour** to get the latest features of IP threat intelligence



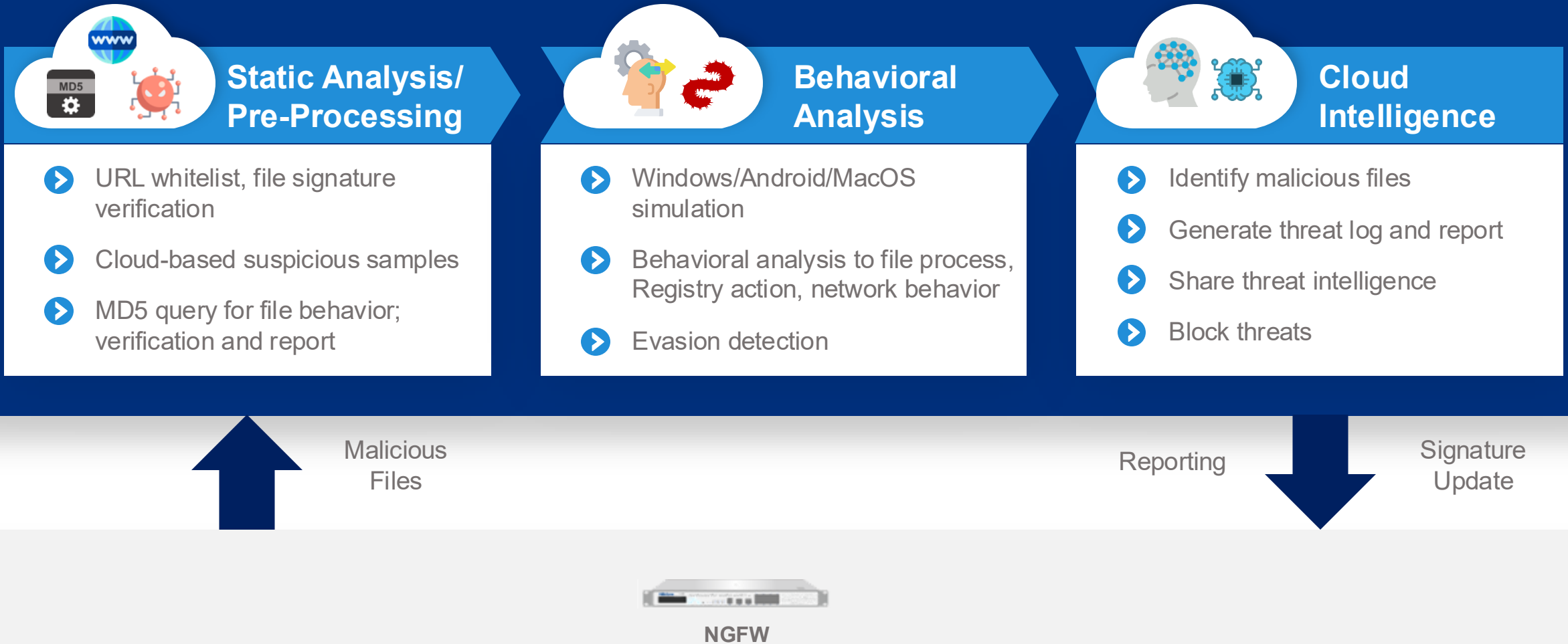
Virus Filtering Service – Effectively Detects and Blocks Ransomware

- **Efficient flow detection engine:** performance of single device protection against virus up to 24Gbps
- **Tens of millions of virus signatures:** daily real-time update to effectively detect and block all types of malware
- **Effective ransomware protection :** effectively detect and block the spread of malware and ransomware, filter and block virus of files transferred with SMB protocol when resuming from breakpoint

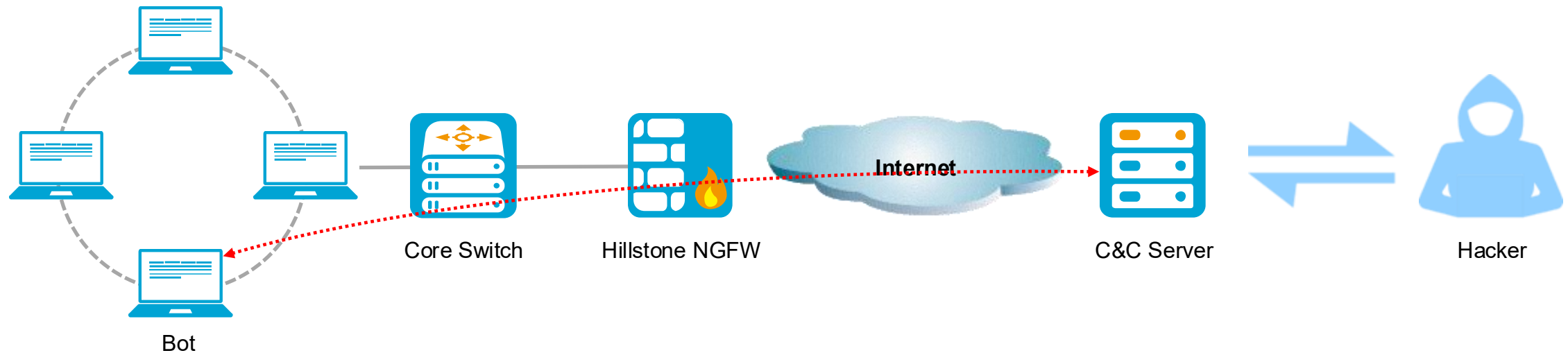


Ransomware events are growing rapidly; protection measures against viruses are essential

Cloud Sandbox for Malicious File Detection and Prevention



Complete Botnet C&C Prevention



**C2 Address
Database**

**DNS Sinkhole
Detection**

**DNS Tunnel
Detection**

**DGA Domain
Detection**



AI Technology Enables Intelligent and Efficient Threat Protection

Encrypted Traffic Detection

- Leverage AI technology to analyze and detect encrypted traffic without decryption
- Improve the efficiency and accuracy of abnormal encrypted traffic detection

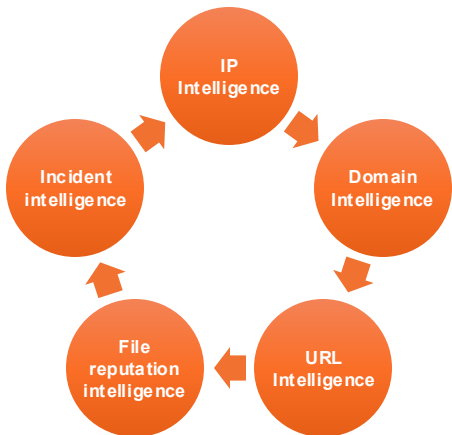
Intelligent Anti-DDoS

- Auto-configuration for flood protection threshold via ML-based baseline establishment
- Accurate and effective DDoS protection with automated configuration

Domain Generation Algorithm (DGA) Detection

- Build, train, and real-time update the detection model
- Better defend against unknown threats with higher effectiveness

Unknown Threat Mitigation

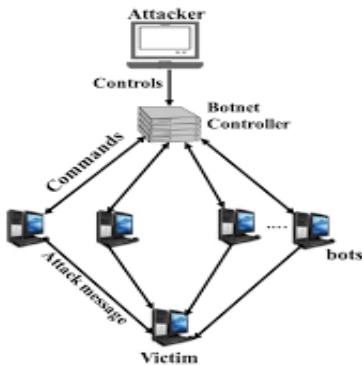




Internal intelligence: FW, IPS, WAF, cloud sandbox, traffic collection, CloudView



External intelligence: business intelligence, open source intelligence



Rich threat intelligence data



Prevention in advance

Before attack:
Hot threat intelligence is actively pushed to prevent threats in advance.

Multi-source intelligence integration



Continuous Enablement

In attack:
Enabling security device to improve threat detection capabilities.

Intelligence based threat mitigation



Minimization of threat

After attack:
Under the help from the intelligence, the NIPS could detect the compromised hosts and help mitigate the threat.

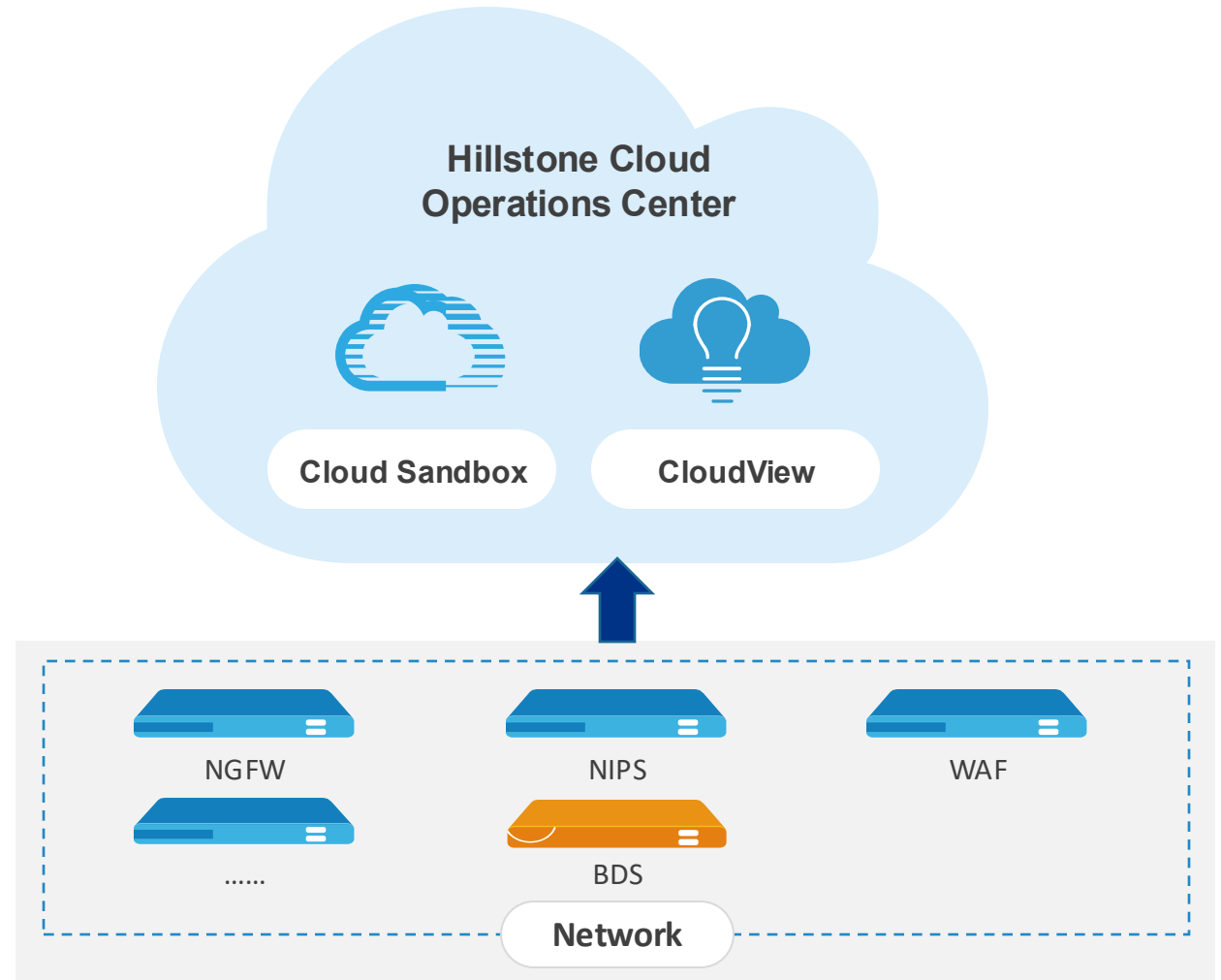
Cloud-Based Intelligence Interaction

Support linkage with Hillstone's firewall, CloudView, HSM, HSA

01 Hot threat monitoring

02 Incident handling

03 Signature update



Cloud-Based Security Monitoring & Analytics

Centralized Threat Monitoring

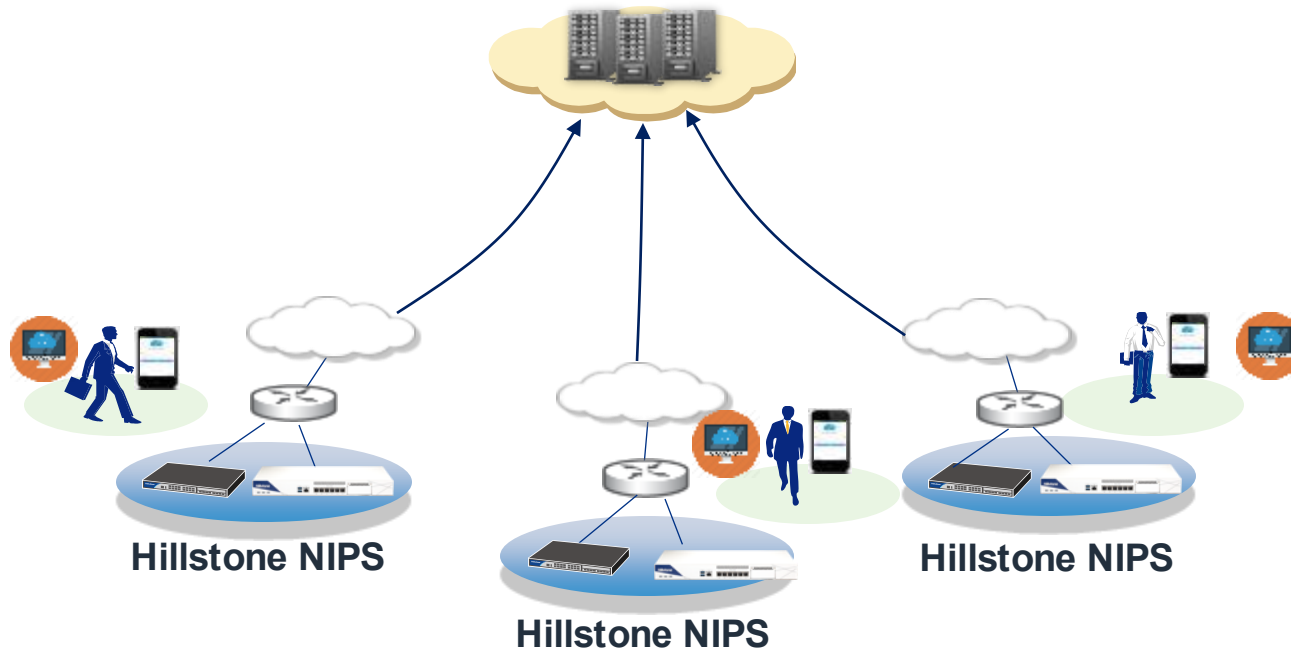
- Threat monitoring
- System status monitoring

Threat Analysis and Alarm

- Threat and event logs
- Comprehensive reports
- Real-time message and alarms



CloudView



Real-time Monitoring

- 24/7 monitoring and alerts
- Threat analysis and reports
- Mobile/web access

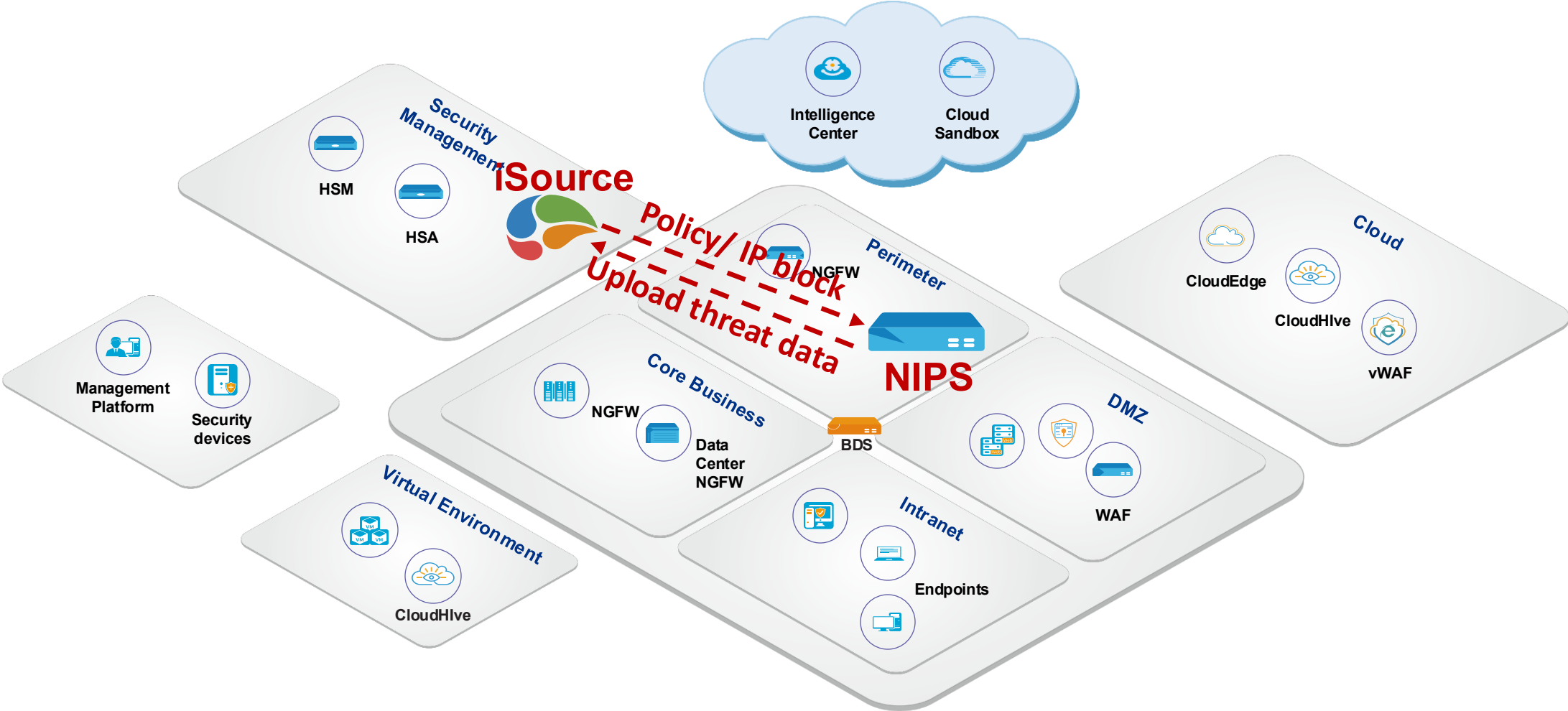
Ease of Deployment

- No deployment required
- No maintenance
- Easy and instant subscription

Low/Flexible Investment Options

- Free to initiate (Includes essential features)
- Pay to subscribe (For advanced features, Professional Version)
- Security as a Service (SaaS)

Integration with Hillstone XDR



NIPS uploads threat data (threat event / forensic Pcap) to iSource, strengthening correlative threat analysis

Better Understanding with Rich and Granular Reporting



IPS Reporting System



Network Traffic Analysis

The health status of traffic



Application and Risk Assessment

Application status and risk of the core assets



System Operating Status

Display of system hardware and computing resources



Security Risk Overview

Comprehensive display of the security risks and their importance



Threat Assessment

Attacks and abnormal behavior

Reports based on User Profile

Management/C-levels, Application Owners, Network Security Administrators

High Reliability to Ensure Reliable Operation of the Network



Reliable system

Safe and stable operating system, Hillstone StoneOS



Reduce hardware failures with reliable components

Stable hard drive
Redundant power supply



Stable device with real-time device status monitoring

Monitors CPU/memory utilization, processes, Network port status, Threat information, etc.



High reliable networking

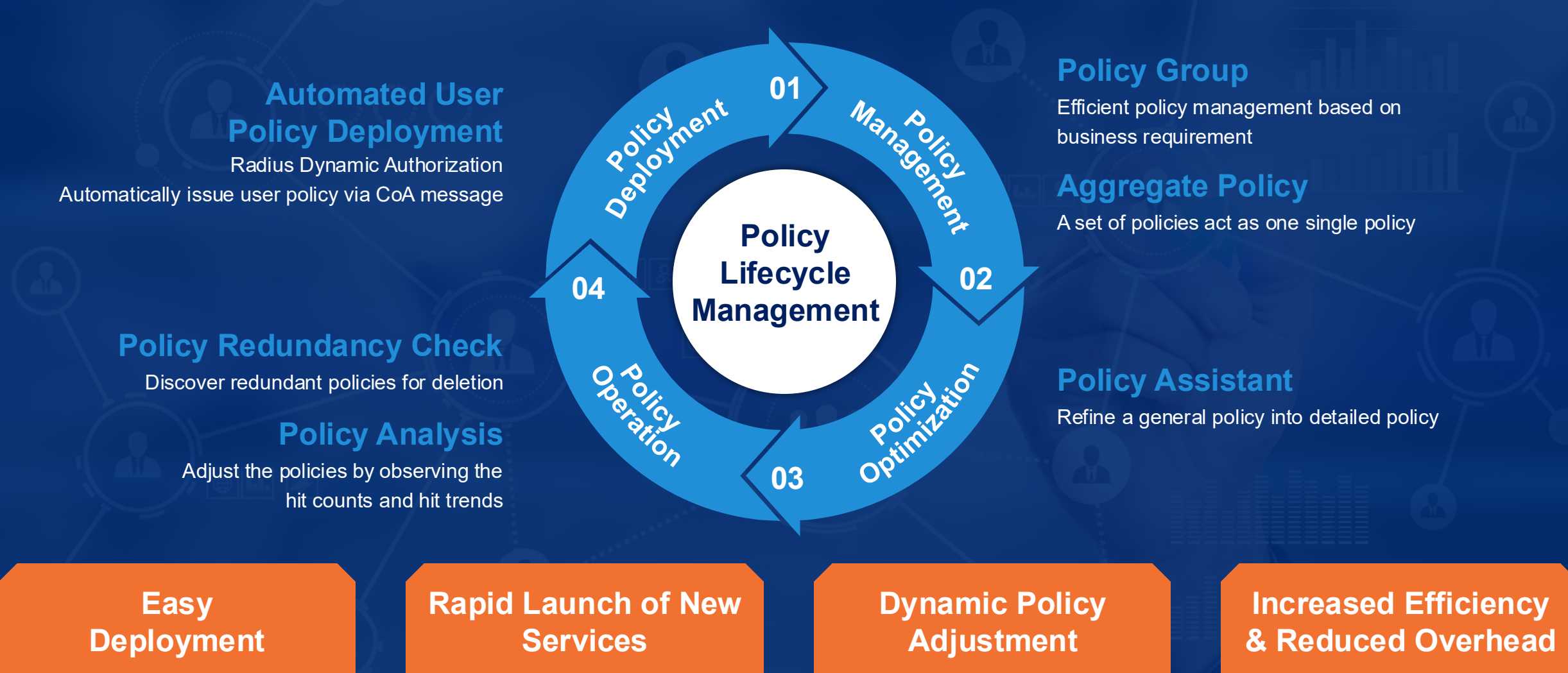
Supports AP / AA mode



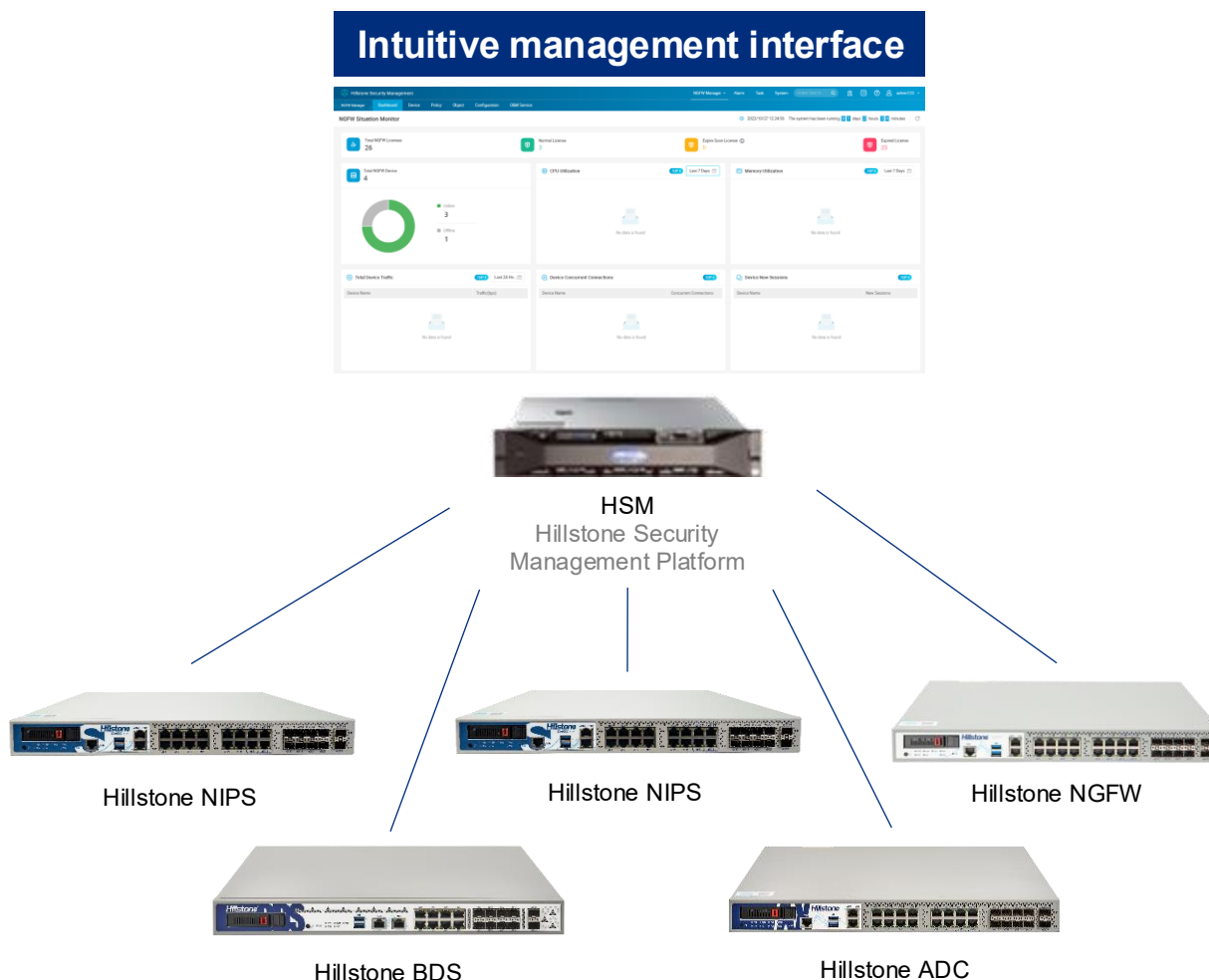
Bypass deployment guarantees business continuity

Provides default bypass pairs
Supports expansion of bypass interfaces

Efficient Security Operation: Smart Policy Operation



Efficient Security Operation: Simplified and Centralized Management Platform



- *NIPS can be managed by HSM hardware appliance and virtual appliance (vHSM)*
- *Support NIPS device registration management via HSM/vHSM*
- *Support NIPS image upgrade via HSM/vHSM*
- *Support NIPS configuration, monitoring and reporting, NIPS signature online/offline update*

Support RESTful API

Easy Deployment with Minimum Network Interruption



Plug-and-play with three easy steps:

- Connect the line
- Select the mode
- Bundle the policy as applicable

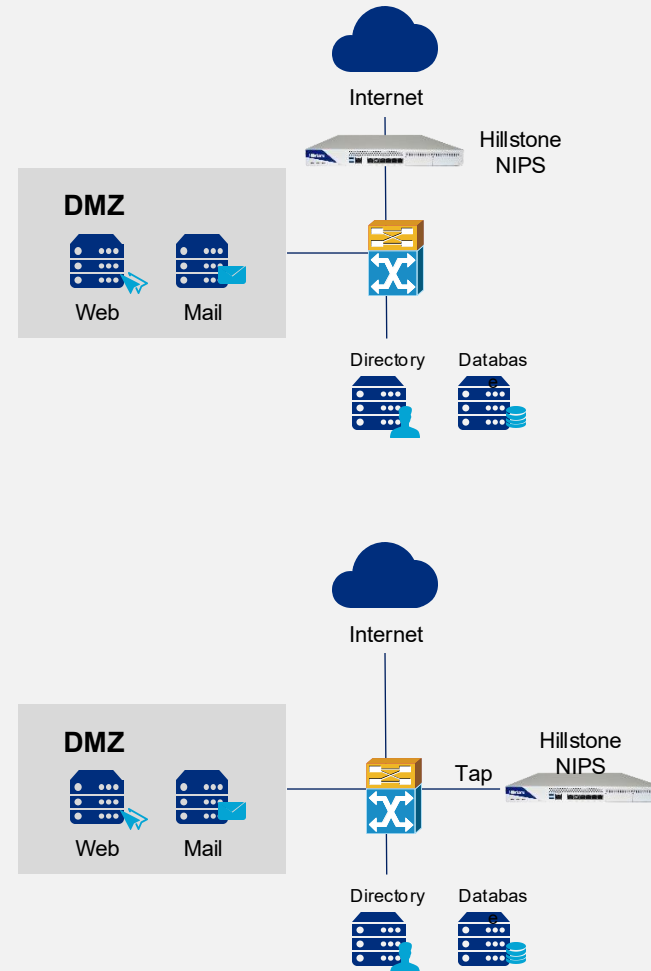


Minimum network disruption

- No network topology change
- No network configuration needed
- No network traffic interruption



Support VSYS



Inline Mode: Blocking/monitoring

- Real time monitoring and blocking
- L2 transparent or L3 routing
- Two ports requirement

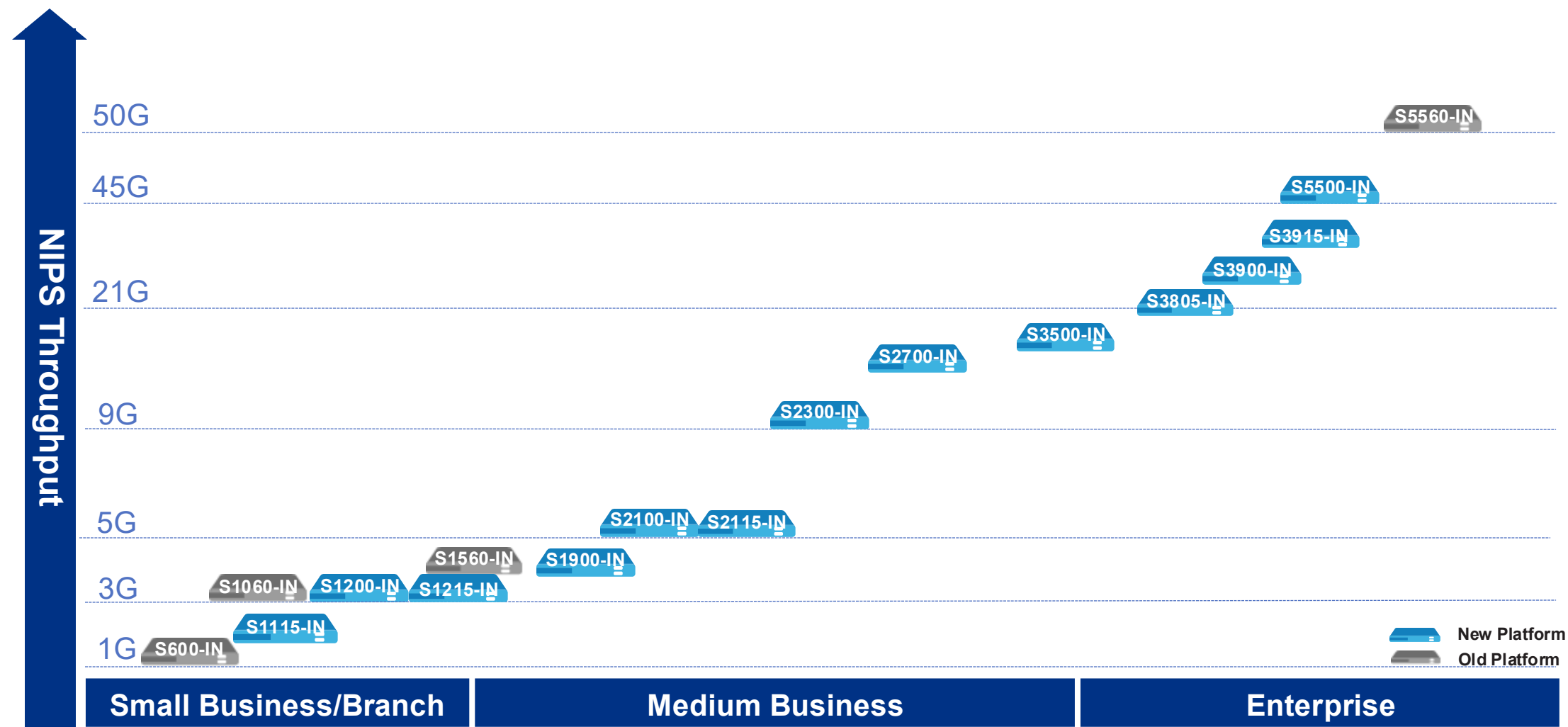
Passive Mode: Monitoring Only

- Real time monitoring and alerts
- Mirroring/TAP
- One port requirement

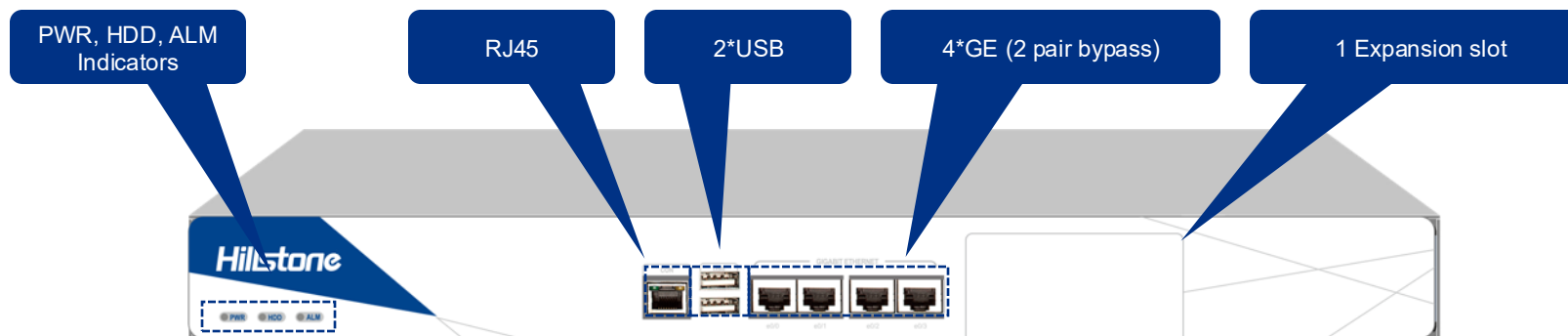
3

Hillstone NIPS Portfolio

Hillstone NIPS Portfolio



S600/S1060/S1560

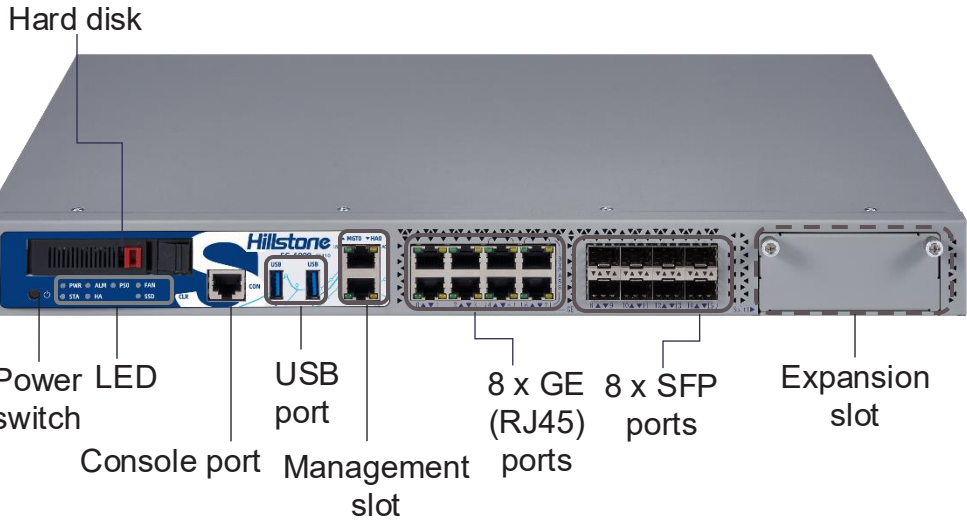


Model	S600-IN	S1060-IN	S1560-IN
NIPS throughput	1 Gbps	3 Gbps	4 Gbps
IPS throughput(realworld, IPS on)	0.9 Gbps	0.9 Gbps	1.4 Gbps
Maximum Concurrent Connections (TCP)	1 Million/ 2 Million (AEL)	1 Million/ 2 Million (AEL)	1 Million/ 2 Million (AEL)
New connections per second (HTTP)	12,000	25,000	30,000
StoneShield	N/A	N/A	Yes
Storage	960 GB HDD	960 GB HDD	960 GB HDD
Form factor	1 U	1 U	1 U
Management Ports	2 x USB Port , 1x Console Port	2 x USB Port , 1x Console Port	2 x USB Port , 1x Console Port
Fixed I/O Ports	4 x GE (including 2 pairs Bypass port)	4 x GE (including 2 pairs Bypass port)	4 x GE (including 2 pairs Bypass port)
Available Slots for Expansion Modules	1 x Generic Slot	1 x Generic Slot	1 x Generic Slot
Expansion Module Option	IOC-S-4SFP-L-IN, IOC-S-4GE-B-IN	IOC-S-4SFP-L-IN, IOC-S-4GE-B-IN	IOC-S-4SFP-L-IN, IOC-S-4GE-B-IN
Bypass Ports (Default / Max.)	4 / 8	4 / 8	4 / 8
Power Supply	AC 100-240 V 50 / 60 Hz	AC 100-240 V 50 / 60 Hz	AC 100-240 V 50 / 60 Hz
Maximum Power Consumption	60W 1 x AC power supply	60W 1 x AC power supply	60W 1 x AC power supply

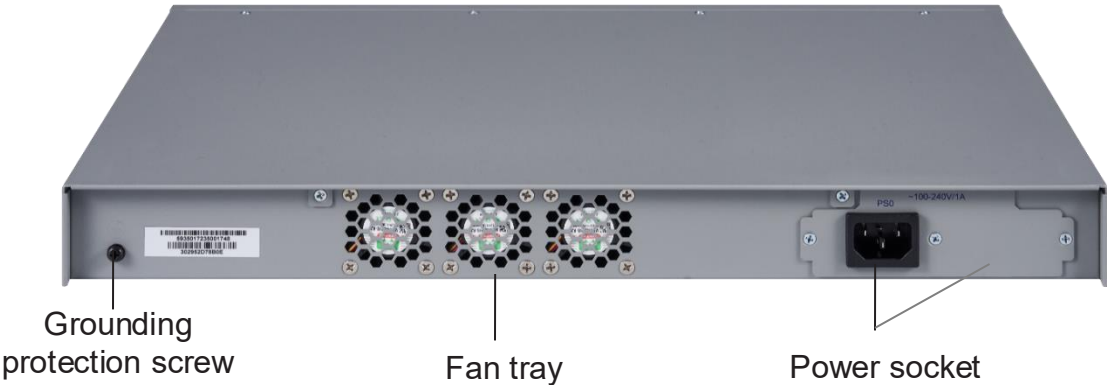
S1115



Front View



Back View

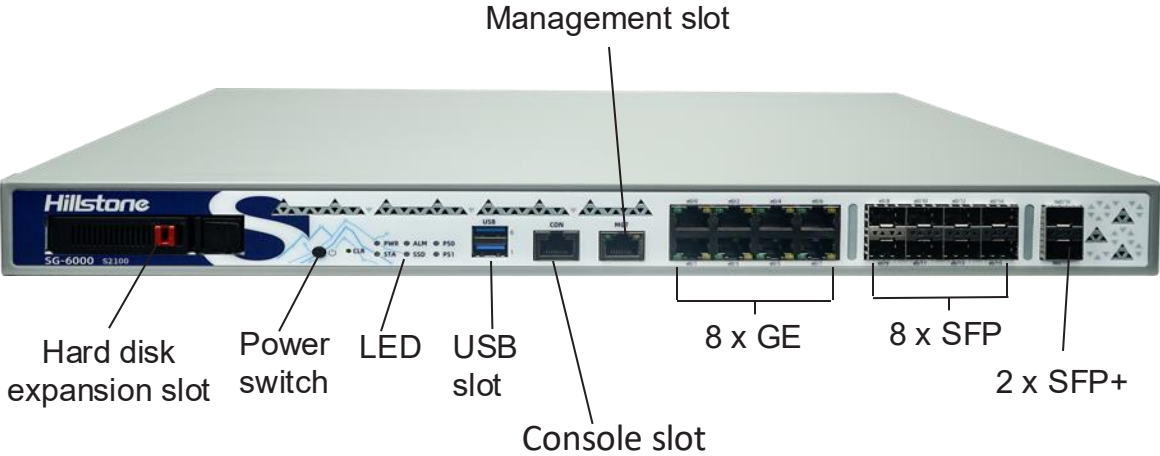


Model	S1115-IN
IPS throughput (HTTP)	2 Gbps
IPS throughput (realworld, IPS on)	1.5 Gbps
Maximum Concurrent Connections (TCP)	1.2 Million
New connections per second (HTTP)	30,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB port, 1 x MGT port, 1 x Console port, 1 x HA
Fixed I/O Ports	8 x GE (including 2 pairs Bypass port), 8 x SFP
Available Slots for Expansion Modules	1 x Generic Slot
Expansion Module Option	IOC-S-F-4SFP+-A-IN, IOC-S-F-8SFP+-A-IN, IOC-S-F-8GE-B-A-IN
Bypass Ports (Default / Max.)	4/12
Power Supply	AC: 100-240V 50 / 60 Hz
Maximum Power Consumption	60W 1 x AC power supply 2 x AC power supply

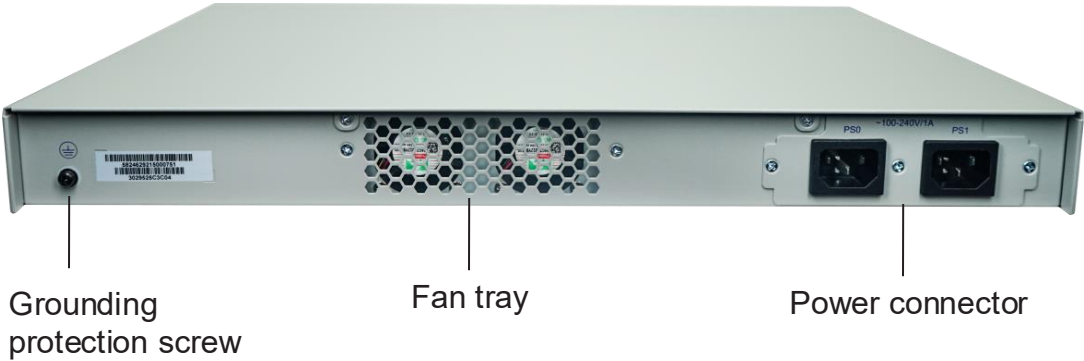
S1200



Front View



Back View

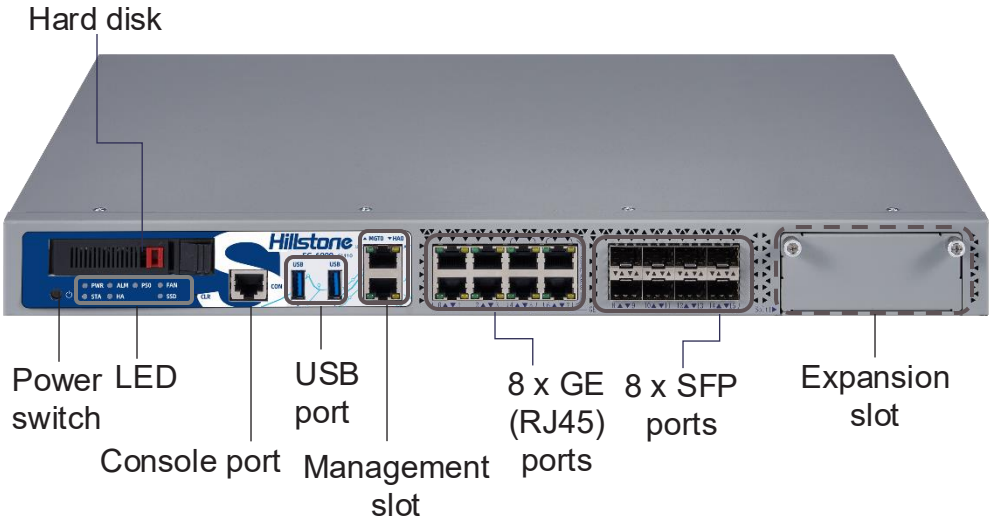


Model	S1200-IN
IPS throughput (HTTP)	3 Gbps
IPS throughput (realworld, IPS on)	1.8 Gbps
Maximum Concurrent Connections (TCP)	1.2 Million
New connections per second (HTTP)	40,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB Port , 1× Console Port, 1 MGT Port
Fixed I/O Ports	2x SFP+, 8x SFP, 8x GE
Available Slots for Expansion Modules	N/A
Expansion Module Option	N/A
Bypass Ports (Default / Max.)	N/A
Power Supply	AC: 100-240V 50 / 60 Hz
Maximum Power Consumption	50W 1 x AC power supply 2 x AC power supply

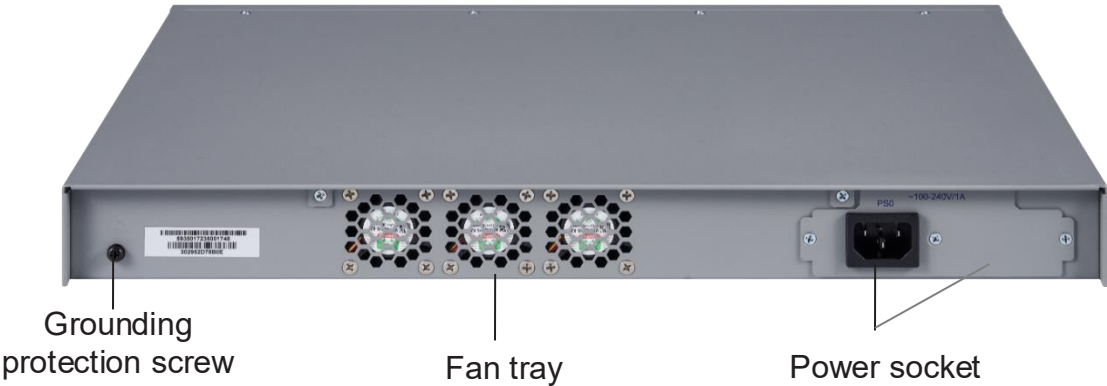
S1215



Front View



Back View

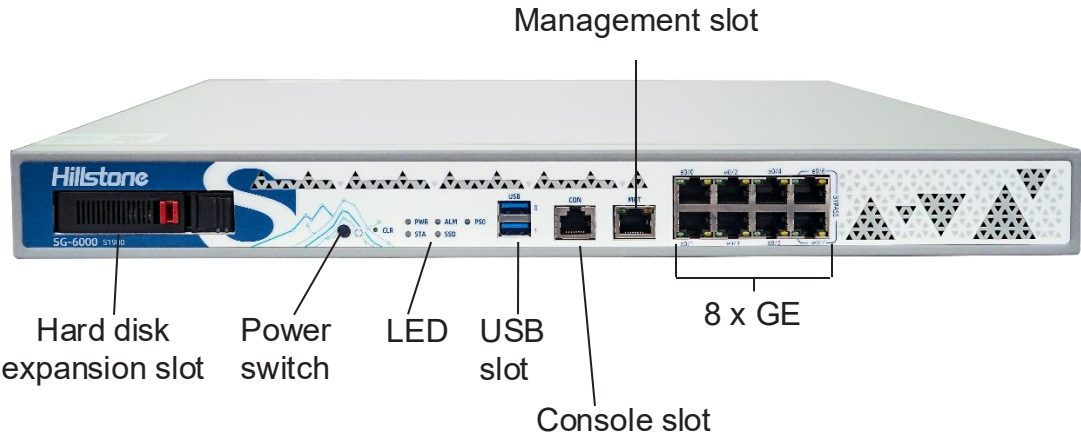


Model	S1215-IN
IPS throughput (HTTP)	3 Gbps
IPS throughput (realworld, IPS on)	1.8 Gbps
Maximum Concurrent Connections (TCP)	1.2 Million
New connections per second (HTTP)	40,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB port, 1 x MGT port, 1 x Console port, 1 x HA
Fixed I/O Ports	8 x GE (including 2 pairs Bypass port), 8 x SFP
Available Slots for Expansion Modules	1 x Generic Slot
Expansion Module Option	IOC-S-F-4SFP+-A-IN, IOC-S-F-8SFP+-A-IN, IOC-S-F-8GE-B-A-IN
Bypass Ports (Default / Max.)	4/12
Power Supply	AC: 100-240 V 50 / 60 Hz
Maximum Power Consumption	60W 1 x AC power supply 2 x AC power supply

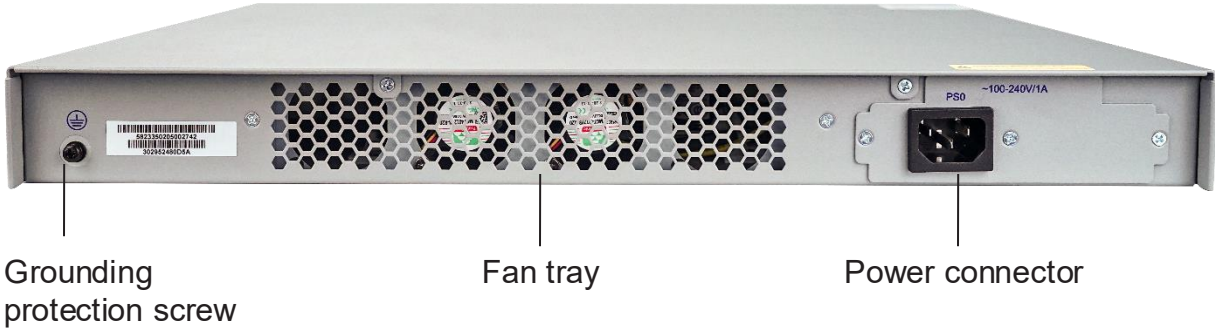
S1900



Front View



Back View

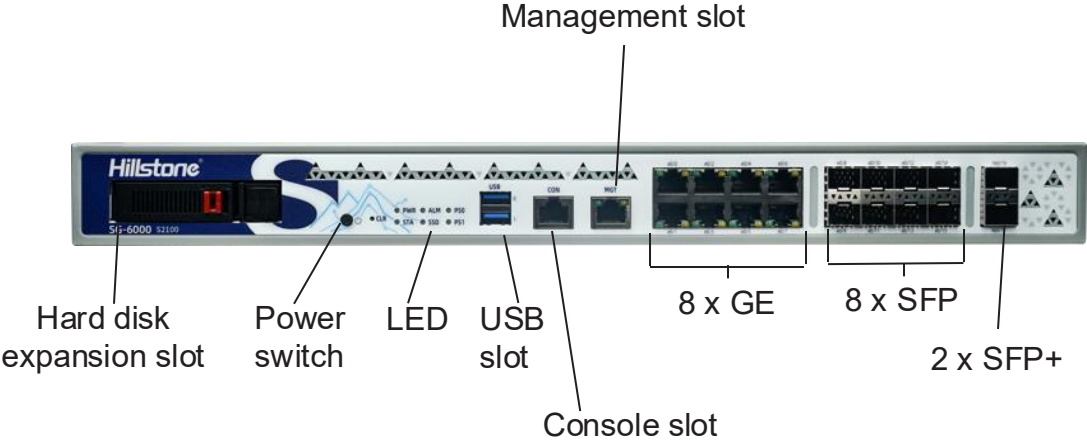


Model	S1900-IN
IPS throughput (HTTP)	3.8 Gbps
IPS throughput (realworld, IPS on)	2 Gbps
Maximum Concurrent Connections (TCP)	1.2 Million
New connections per second (HTTP)	60,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB Port , 1× Console Port, 1 MGT Port
Fixed I/O Ports	8x GE (including 1 pair Bypass port)
Available Slots for Expansion Modules	N/A
Expansion Module Option	N/A
Bypass Ports (Default / Max.)	2 / 2
Power Supply	DC: -36~ -72 V; AC: 100-240 V 50 / 60 Hz
Maximum Power Consumption	50W 1 x AC power supply 2 x AC power supply

S2100



Front View



Back View

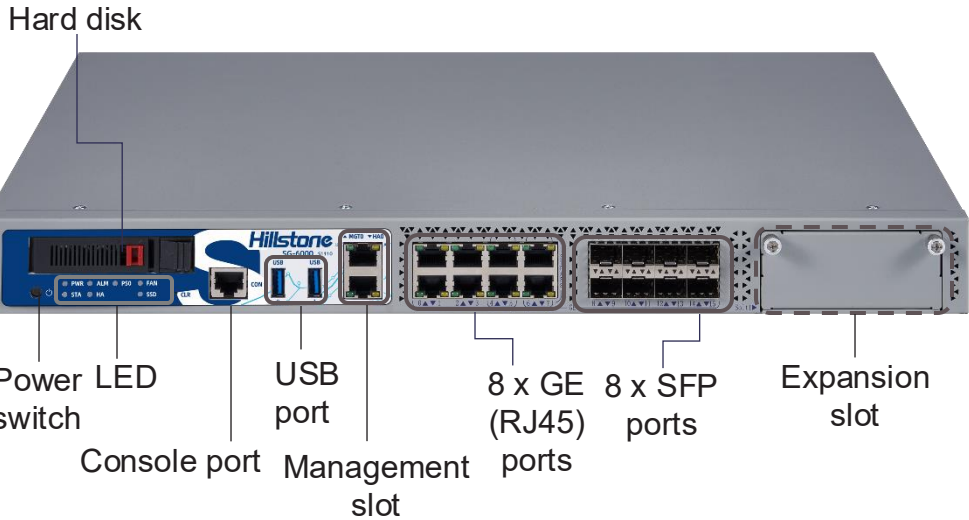


Model	S2100-IN
IPS throughput (HTTP)	5 Gbps
IPS throughput (realworld, IPS on)	2.4 Gbps
Maximum Concurrent Connections (TCP)	1.2 Million
New connections per second (HTTP)	60,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB Port , 1× Console Port, 1 MGT Port
Fixed I/O Ports	2× SFP+, 8 × SFP, 8 × GE
Available Slots for Expansion Modules	N/A
Expansion Module Option	N/A
Bypass Ports (Default / Max.)	N/A
Power Supply	AC: 100-240 V 50 / 60 Hz
Maximum Power Consumption	50W 1 x AC power supply 2 x AC power supply

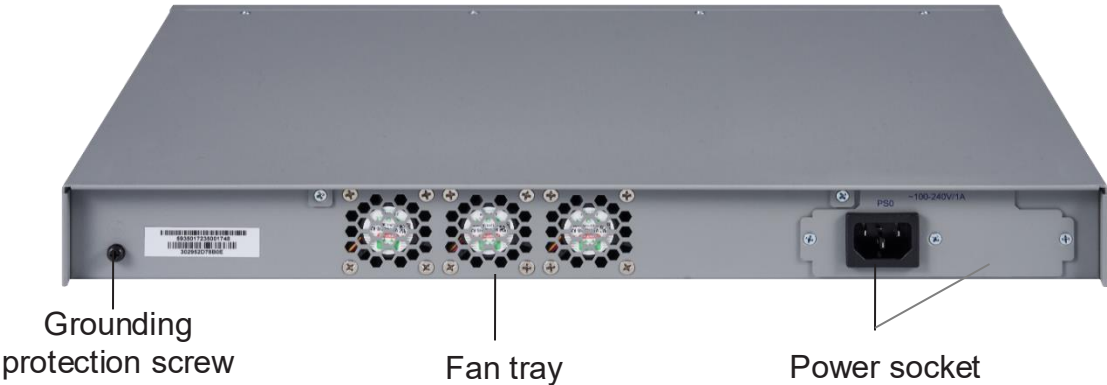
S2115



Front View



Back View

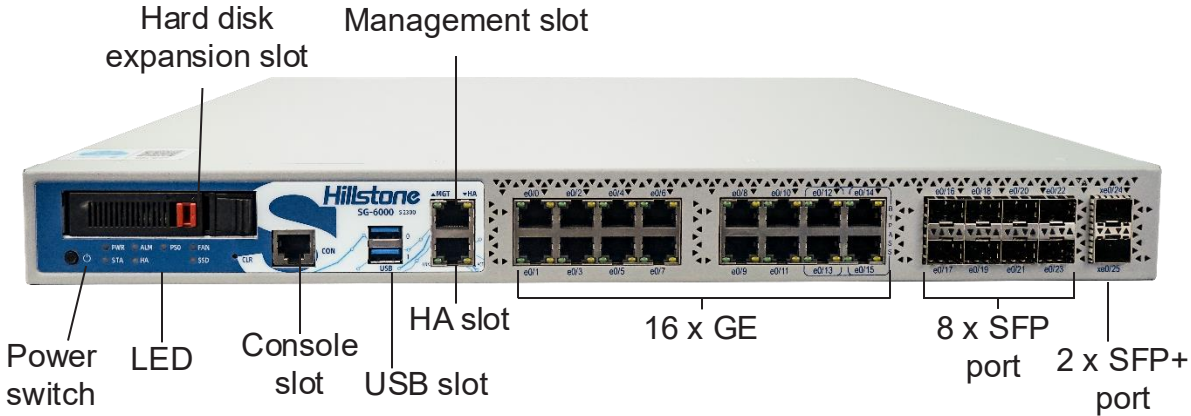


Model	S2115-IN
IPS throughput (HTTP)	5 Gbps
IPS throughput (realworld, IPS on)	2.4 Gbps
Maximum Concurrent Connections (TCP)	1.2 Million
New connections per second (HTTP)	60,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB port, 1 x MGT port, 1 x Console port, 1 x HA
Fixed I/O Ports	8 x GE (including 2 pairs Bypass port), 8 x SFP
Available Slots for Expansion Modules	1 x Generic Slot
Expansion Module Option	IOC-S-F-4SFP+-A-IN, IOC-S-F-8SFP+-A-IN, IOC-S-F-8GE-B-A-IN
Bypass Ports (Default / Max.)	4/12
Power Supply	AC: 100-240 V 50 / 60 Hz
Maximum Power Consumption	60W 1 x AC power supply 2 x AC power supply

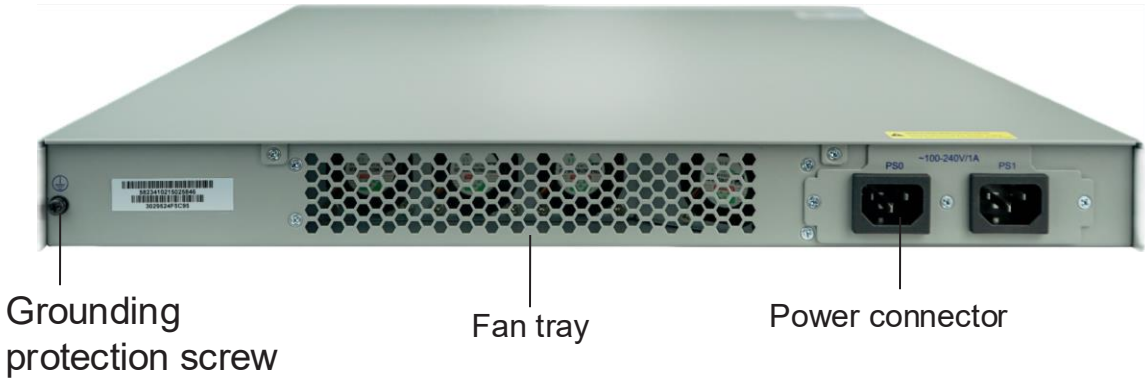
S2300



Front View



Back View

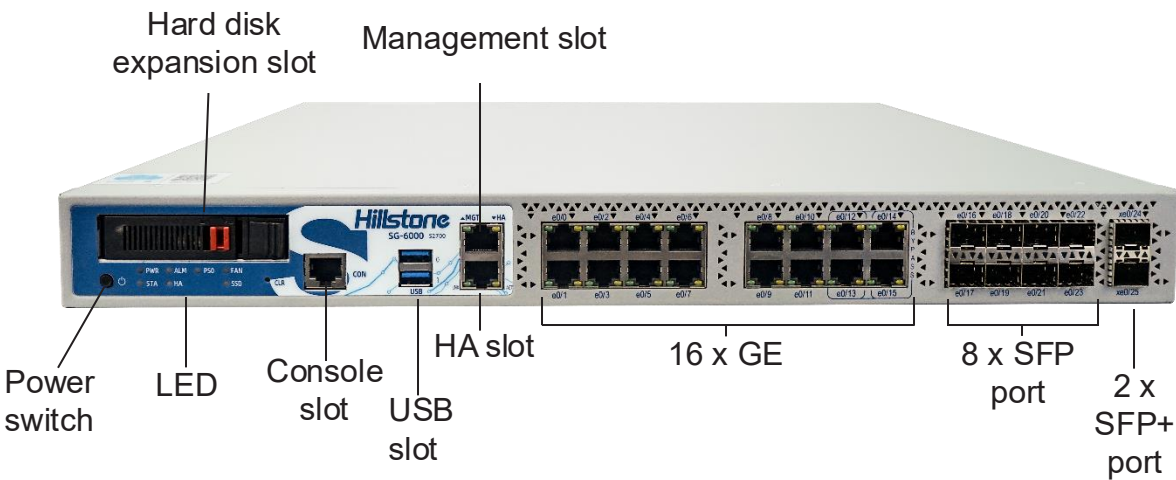


Model	S2300-IN
IPS throughput (HTTP)	9 Gbps
IPS throughput (realworld, IPS on)	2.4 Gbps
Maximum Concurrent Connections (TCP)	3 Million
New connections per second (HTTP)	60,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB 3.0 Port , 1x Console Port, 1 MGT Port, 1 HA Port
Fixed I/O Ports	2x SFP+, 8 x SFP, 16 x GE(including 2 pairs Bypass port)
Available Slots for Expansion Modules	N/A
Expansion Module Option	N/A
Bypass Ports (Default / Max.)	4 / 4
Power Supply	AC: 100-240 V 50 / 60 Hz
Maximum Power Consumption	100W 1 x AC power supply 2 x AC power supply

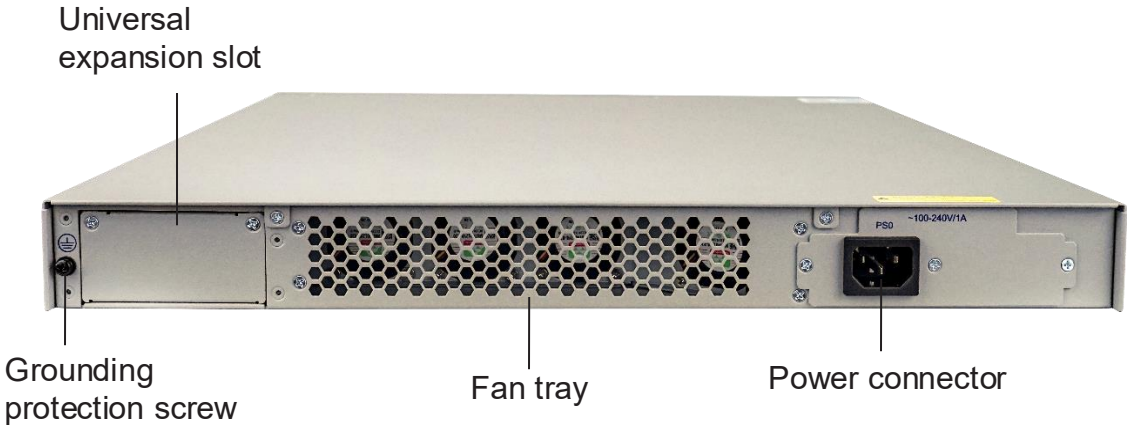
S2700



Front View



Back View

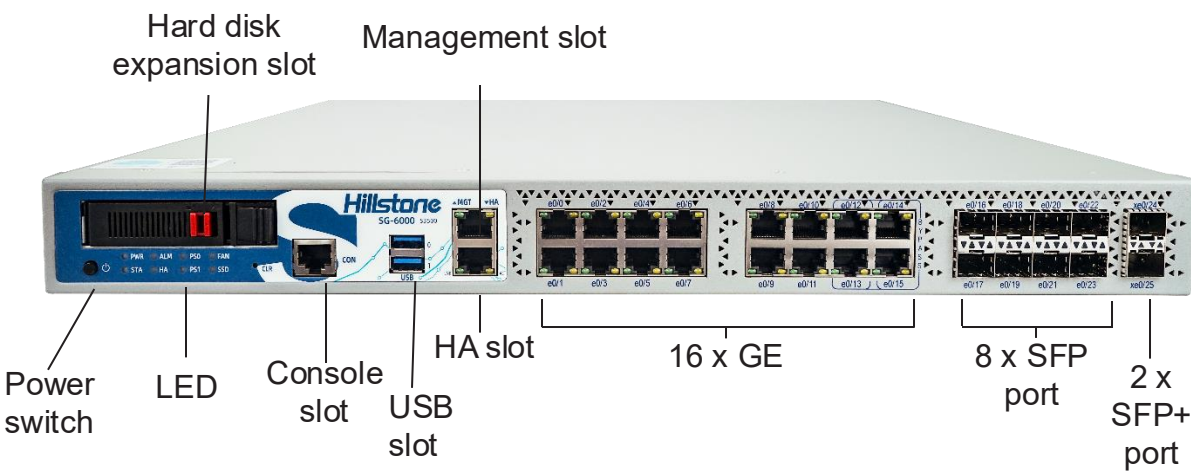


Model	S2700-IN
IPS throughput (HTTP)	11 Gbps
IPS throughput (realworld, IPS on)	2.4 Gbps
Maximum Concurrent Connections (TCP)	6 Million
New connections per second (HTTP)	60,000
Storage	480 GB SSD
Form factor	1 U
Management Ports	2 x USB 3.0 Port , 1x Console Port, 1 x MGT Port, 1x HA Port
Fixed I/O Ports	2 x SFP+, 8 x SFP, 16 x GE (including 2 pairs Bypass port)
Available Slots for Expansion Modules	1 x Generic Slot
Expansion Module Option	IOC-S-4SFP+-A-IN, IOC-S-2QSFP+-A-IN, IOC-S-2MM-BE-A-IN, IOC-S-2SM-BE-A-IN
Bypass Ports (Default / Max.)	4 / 4
Power Supply	DC: -36~ -72 V; AC 100-240 V 50 / 60 Hz
Maximum Power Consumption	100W 1 x AC power supply 2 x AC power supply

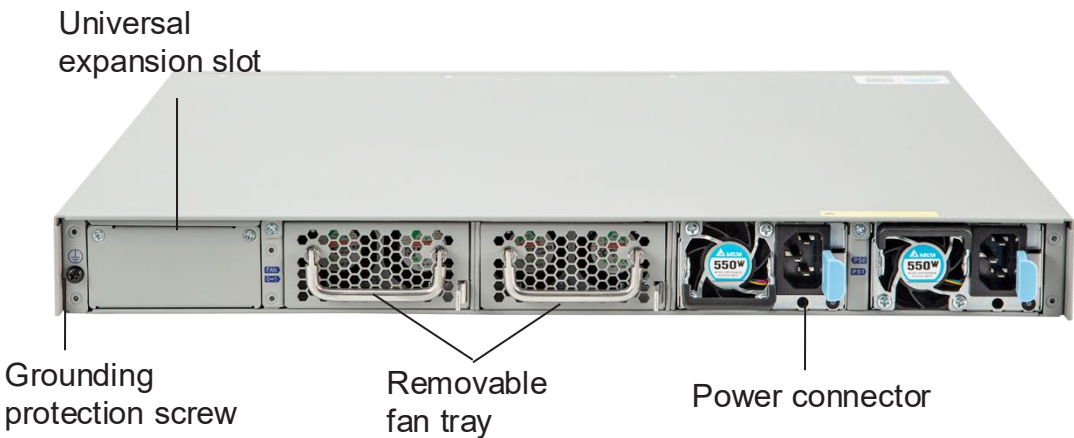
S3500



Front View



Back View



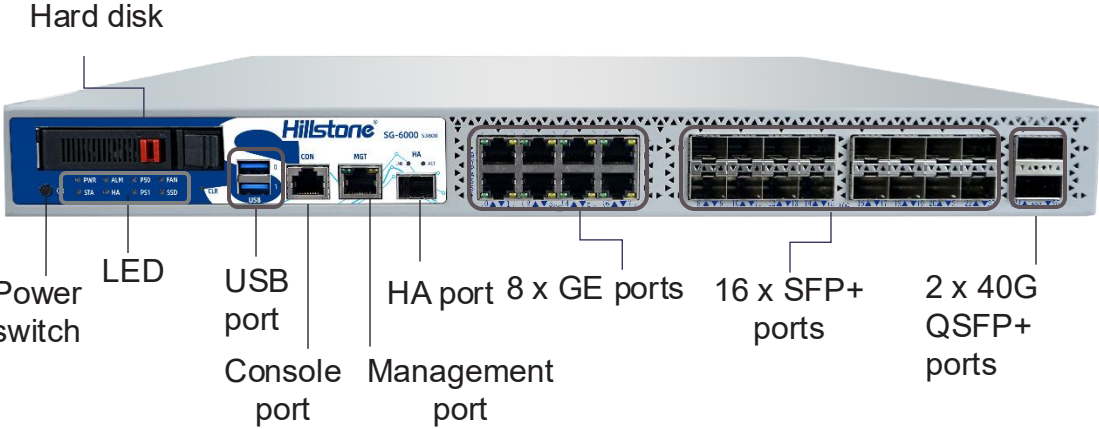
Model
IPS throughput (HTTP)
IPS throughput (realworld, IPS on)
Maximum Concurrent Connections (TCP)
New connections per second (HTTP)
Storage
Form factor
Management Ports
Fixed I/O Ports
Available Slots for Expansion Modules
Expansion Module Option
Bypass Ports (Default / Max.)
Power Supply
Maximum Power Consumption

S3500-IN
15 Gbps
4.5 Gbps
8 Million
140,000
960 GB SSD
1 U
2 x USB 3.0 Port , 1× Console Port, 1 x MGT Port, 1x HA Port
2 x SFP+, 8 x SFP, 16 x GE (including 2 pairs Bypass port)
1 x Generic Slot
IOC-S-4SFP+-A-IN, IOC-S-2QSFP+-A-IN, IOC-S-2MM-BE-A-IN, IOC-S-2SM-BE-A-IN
4 / 4
DC: -36~ -72 V; AC: 100-240 V 50 / 60 Hz
100W 2 x AC power supply 2 x DC power supply

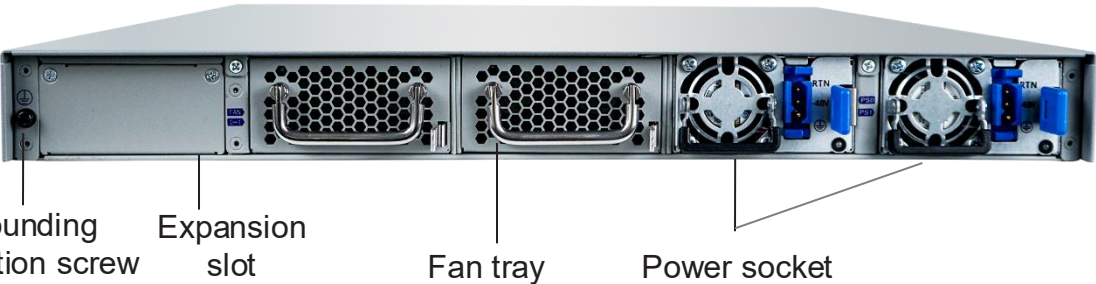
S3805/S3915



Front View



Back View

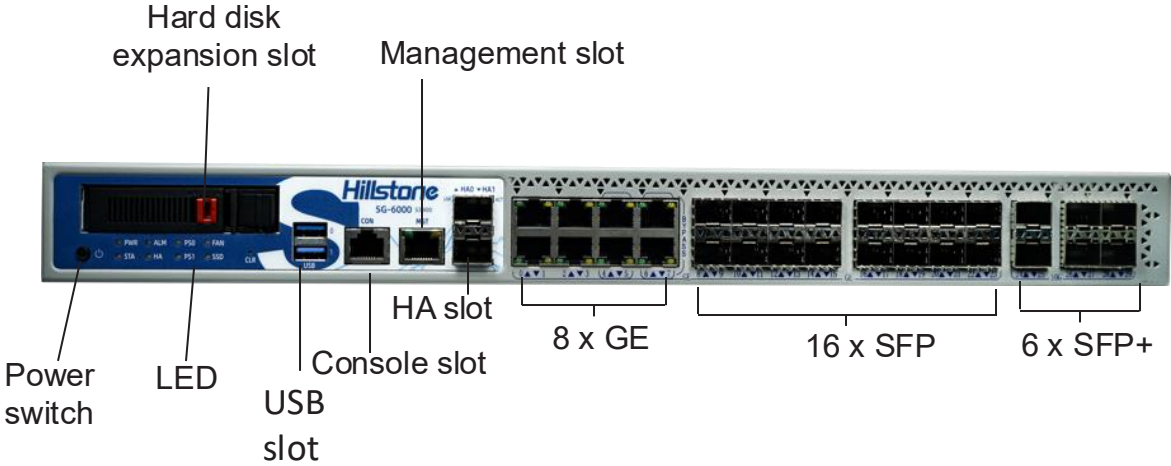


Model	S3805-IN	S3915-IN
IPS throughput (HTTP)	20 Gbps	30 Gbps
IPS throughput (realworld, IPS on)	10 Gbps	14 Gbps
Maximum Concurrent Connections (TCP)	12M	15M
New connections per second (HTTP)	250,000	380,000
Storage	960 GB SSD	960 GB SSD
Form factor	1 U	1 U
Management Ports	2 x USB Port, 1 x MGT port, 1 x Console Port , 1 HA port	2 x USB Port, 1 x MGT port, 1 x Console Port , 1 HA port
Fixed I/O Ports	2 x QSFP+, 16 x SFP+, 8 x GE (including 4 pairs Bypass port)	2 x QSFP+, 16 x SFP+, 8 x GE (including 4 pairs Bypass port)
Available Slots for Expansion Modules	1 x Generic Slot	1 x Generic Slot
Expansion Module Option	IOC-S-4SFP+-A-IN, IOC-S-2QSFP+-A-IN, IOC-S-2MM-BE-A-IN IOC-S-2SM-BE-A-IN	IOC-S-4SFP+-A-IN, IOC-S-2QSFP+-A-IN, IOC-S-2MM-BE-A-IN IOC-S-2SM-BE-A-IN
Bypass Ports (Default / Max.)	8/8	8/8
Power Supply	DC: -36~ -72 V; AC: 100-240 V 50 / 60 Hz	DC: -36~ -72 V; AC: 100-240 V 50 / 60 Hz
Maximum Power Consumption	280W 2 x AC power supply 2 x DC power supply	280W 2 x AC power supply 2 x DC power supply

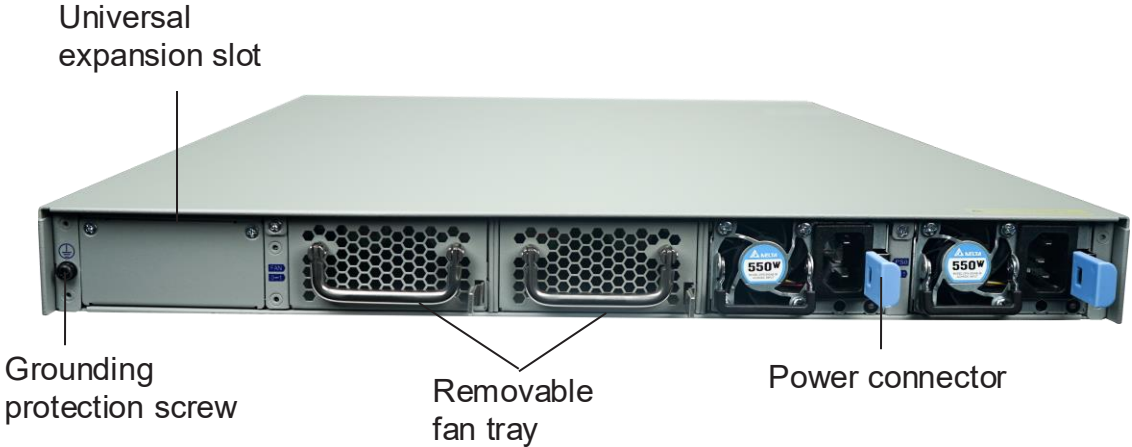
S3900



Front View



Back View

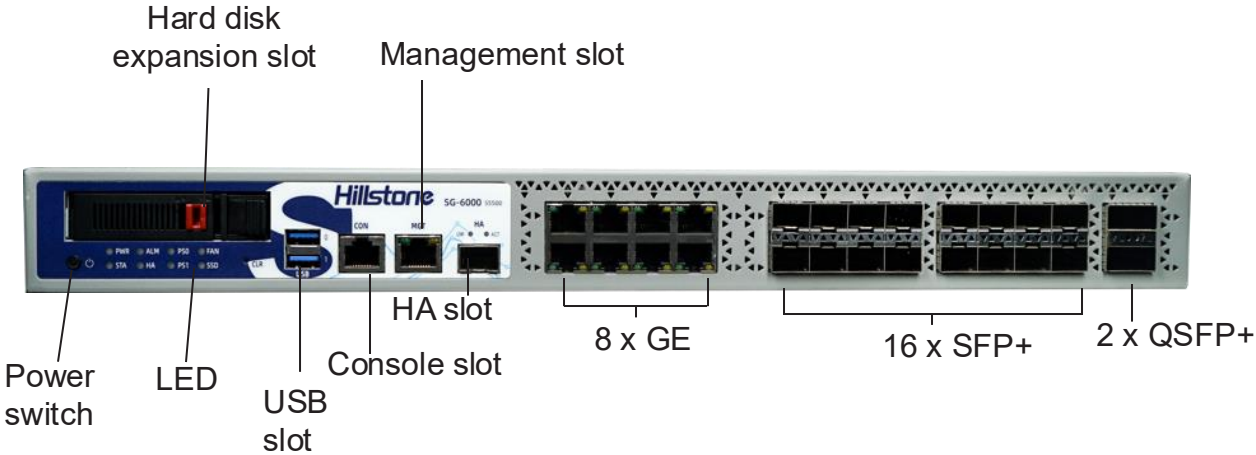


Model	S3900-IN
IPS throughput (HTTP)	25 Gbps
IPS throughput (realworld, IPS on)	14 Gbps
Maximum Concurrent Connections (TCP)	12 Million
New connections per second (HTTP)	380,000
Storage	960 GB SSD
Form factor	1 U
Management Ports	2 x USB 3.0 Port , 1x Console Port, 1 x MGT Port, 2 x HA Port (SFP+)
Fixed I/O Ports	6 x SFP+, 16 x SFP, 8 x GE (including 2 pairs Bypass port)
Available Slots for Expansion Modules	1 x Generic Slot
Expansion Module Option	IOC-S-4SFP+-A-IN, IOC-S-2QSFP+-A-IN, IOC-S-2MM-BE-A-IN, IOC-S-2SM-BE-A-IN
Bypass Ports (Default / Max.)	4 / 4
Power Supply	DC: -36~ -72 V; AC 100-240 V 50 / 60 Hz
Maximum Power Consumption	280W 2 x AC power supply 2 x DC power supply

S5500



Front View

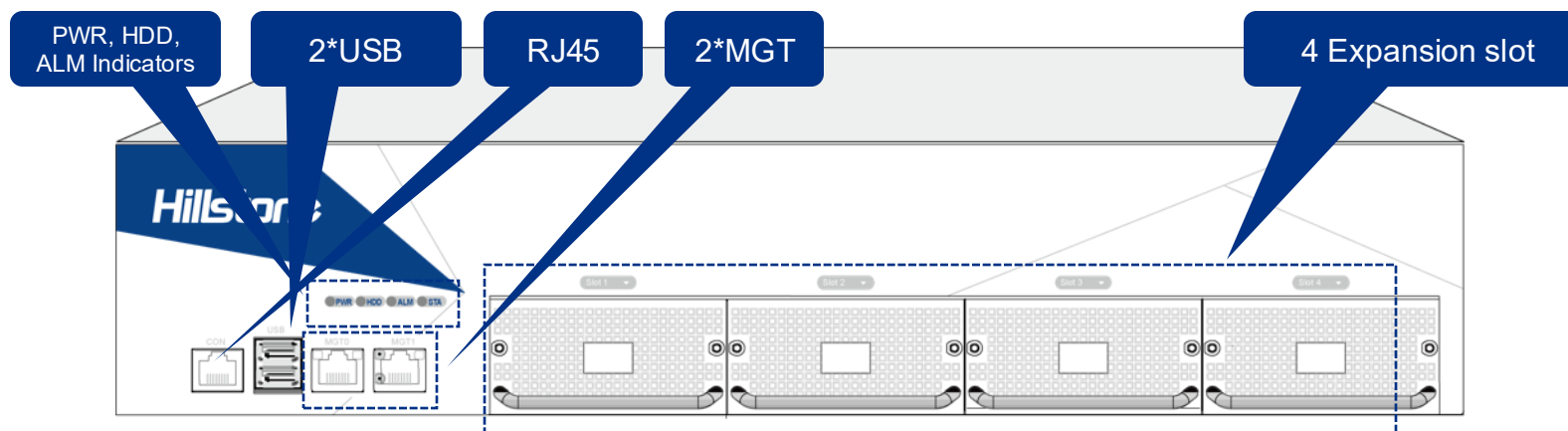


Back View



Model	S5500-IN
IPS throughput (HTTP)	45 Gbps
IPS throughput (realworld, IPS on)	25 Gbps
Maximum Concurrent Connections (TCP)	24 Million
New connections per second (HTTP)	550,000
Storage	960 GB SSD
Form factor	1 U
Management Ports	2 x USB 3.0 Port , 1x Console Port, 1 x MGT Port, 1 x HA Port (SFP+)
Fixed I/O Ports	2 x QSFP+, 16 x SFP+, 8 x GE (including 4 pairs Bypass port)
Available Slots for Expansion Modules	1 x Generic Slot
Expansion Module Option	IOC-S-4SFP+-A-IN, IOC-S-2QSFP+-A-IN, IOC-S-2MM-BE-A-IN, IOC-S-2SM-BE-A-IN
Bypass Ports (Default / Max.)	8 / 8
Power Supply	DC: -36~ -72 V; AC 100-240 V 50 / 60 Hz
Maximum Power Consumption	320W 2 x AC power supply 2 x DC power supply

S5560



Model	S5560-IN
NIPS throughput	50 Gbps
IPS throughput (realworld, IPS on)	31.4 Gbps
Maximum Concurrent Connections (TCP)	8 Million / 10 Million (with AEL)
New connections per second (HTTP)	700,000
StoneShield	Yes
Storage	960 GB HDD
Form factor	2 U
Management Ports	2 x USB Port , 2 x GE MGT, 1× Console Port
Fixed I/O Ports	N/A
Available Slots for Expansion Modules	4 x Generic Slot
Expansion Module Option	IOC-S-4GE-B-H-IN, IOC-S-4SFP-IN,IOC-S-8GE-B-H-IN, IOC-S-8SFP-H-IN,IOC-S-4GE-4SFP-H-IN,IOC-S-2SFP+-H-IN, IOC-S-4SFP+-H-IN, IOC-S-4SFP-B-H-IN, IOC-S-2SFP+-B-H-IN
Bypass Ports (Default / Max.)	0 / 32
Power Supply	AC 100-240 V 50 / 60 Hz
Maximum Power Consumption	350W 2 x AC power supply

Expansion Modules (1)

Module	IOC-S-4SFP-L-IN	IOC-S-4GE-B-IN	IOC-S-F-4SFP+-A-IN	IOC-S-F-8SFP+-A-IN	IOC-S-F-8GE-B-A-IN	IOC-S-4SFP+-A-IN	IOC-S-2MM-BE-A-IN	IOC-S-2SM-BE-A-IN	IOC-S-2QSFP+-A-IN
I/O Ports	4 x SFP Ports	4 x GE Bypass Ports	4 x SFP+ Ports (for Front Panel)	8 x SFP+ ports (for Front Panel)	8 x GE, including 4 bypass pairs (for Front Panel)	4 × SFP+, SFP+ module not included	4 × SFP, MM bypass (2 pairs of bypass ports)	4 × SFP, SM bypass (2 pairs of bypass ports)	2 × QSFP+
Dimension	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U	1U	1U	1U	1U	1U	1U
Weight	0.22 lb (0.1 kg)	0.33 lb (0.15 kg)	0.55 lb (0.25 kg)	0.62 lb (0.28 kg)	0.6 lb (0.27 kg)	2.09 lb (0.96 kg)	2.09 lb (0.96 kg)	2.09 lb (0.96 kg)	2.09 lb (0.96 kg)
Applicable Models	S600-IN S1060-IN S1560-IN		S1115-IN S1215-IN S2115-IN			S2700-IN S3500-IN S3900-IN S3805 S3915 S5500-IN			

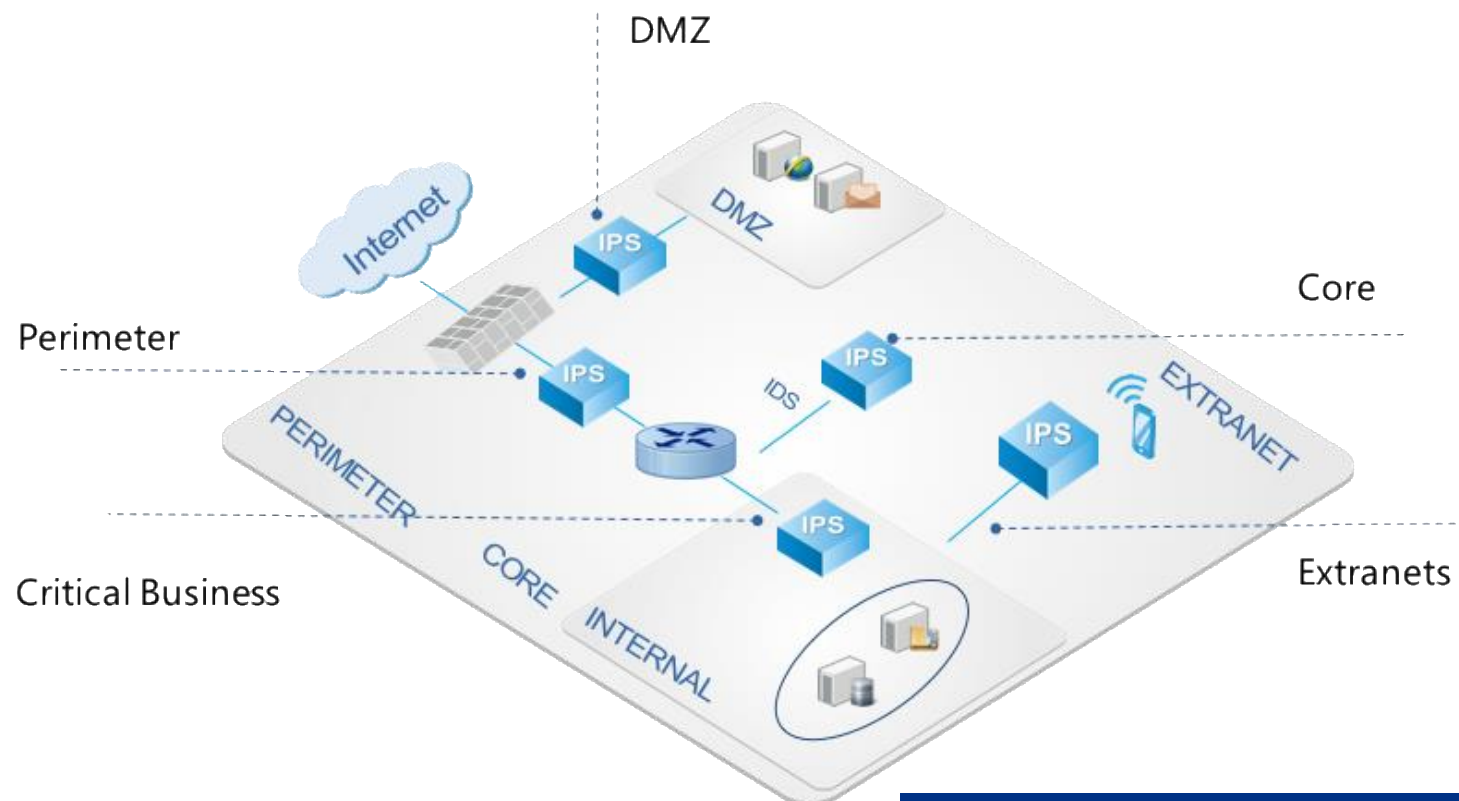
Expansion Modules (2)

Module	IOC-S-4GE-B-H-IN	IOC-S-4SFP-H-IN	IOC-S-8GE-B-H-IN	IOC-S-8SFP-H-IN	IOC-S-4GE-4SFP-H-IN	IOC-S-2SFP+-H-IN	IOC-S-4SFP+-H-IN	IOC-S-4SFP-B-H-IN	IOC-S-2SFP+-B-H-IN
I/O Ports	4 x GE Bypass Ports	4 x SFP Ports	8 x GE Bypass Ports	8 x SFP Ports	4 x GE and 4 x SFP Ports	2 x SFP+ Ports	4 x SFP+ Ports	4 x SFP Bypass ports	2 x SFP+ Bypass ports
Dimension	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)	1U (Occupies 1 generic slot)
Weight	0.33 lb (0.15 kg)	0.33 lb (0.15 kg)	0.55 lb (0.25 kg)	0.55 lb (0.25 kg)	0.55 lb (0.25 kg)	0.33 lb (0.15 kg)	0.44 lb (0.2 kg)	0.88 lb (0.4 kg)	0.88 lb (0.4 kg)
Applicable Models	S5560-IN								

4

Deployment Scenarios & Winning Cases

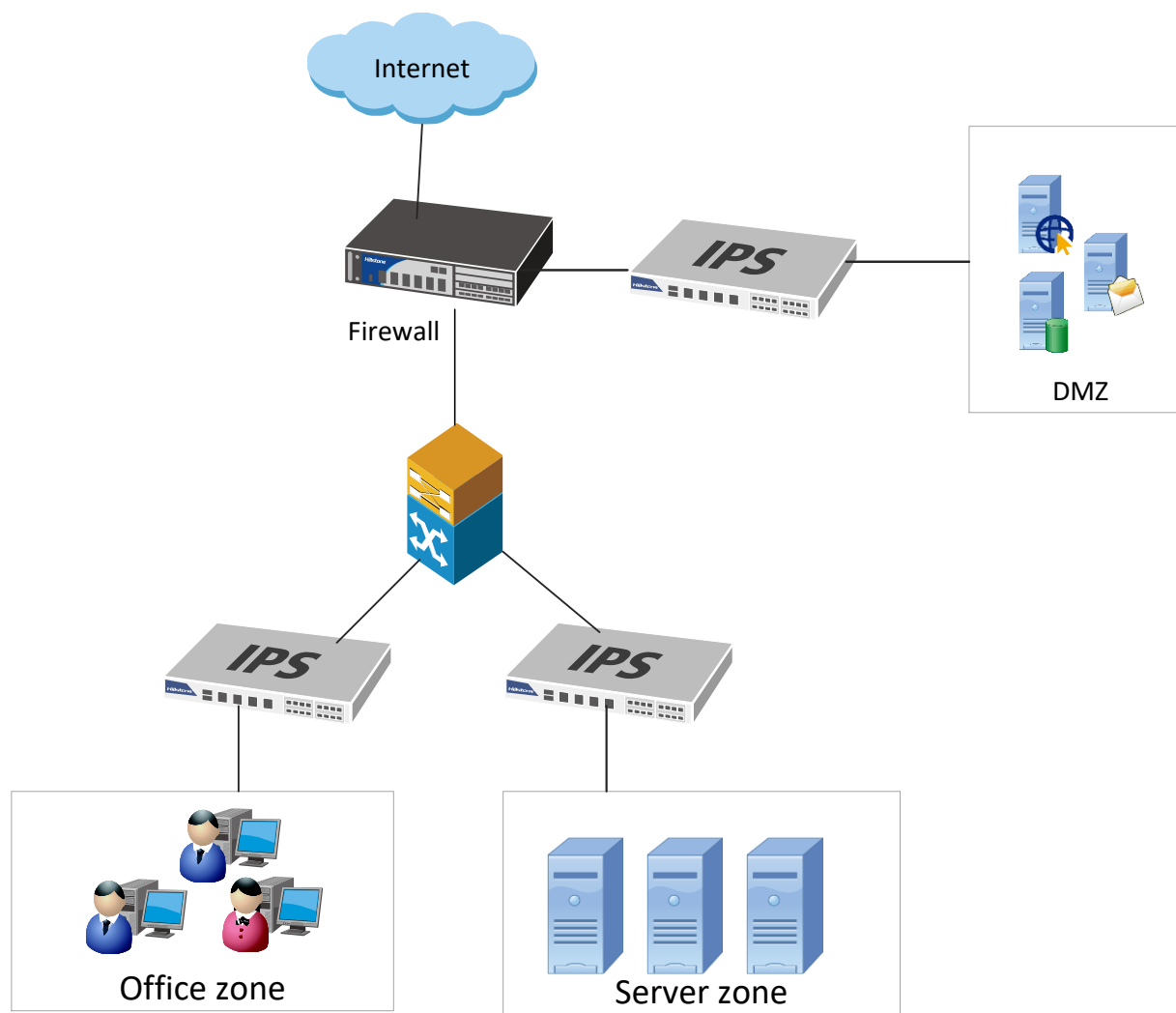
Deployment Scenarios



Customers: Government, Financial Sectors, Enterprises customers who need standalone IPS/IDS appliance for better protection/internal network segmentation/Threat monitoring etc.

Deployment Scenarios: inline deployment after perimeter firewall, DMZ/Internal network/Remote access segmentation, Tapping mode by core switch/access switch for threat monitoring/detection

S-Series Deployment in Enterprises



Requirements

- Protection against sophisticated attacks
- Insight into network environment

Solutions

- Strong defensive capabilities
- Deep visibility from L2 – L7
- Unknown threat detection
- Automated analysis and mitigation

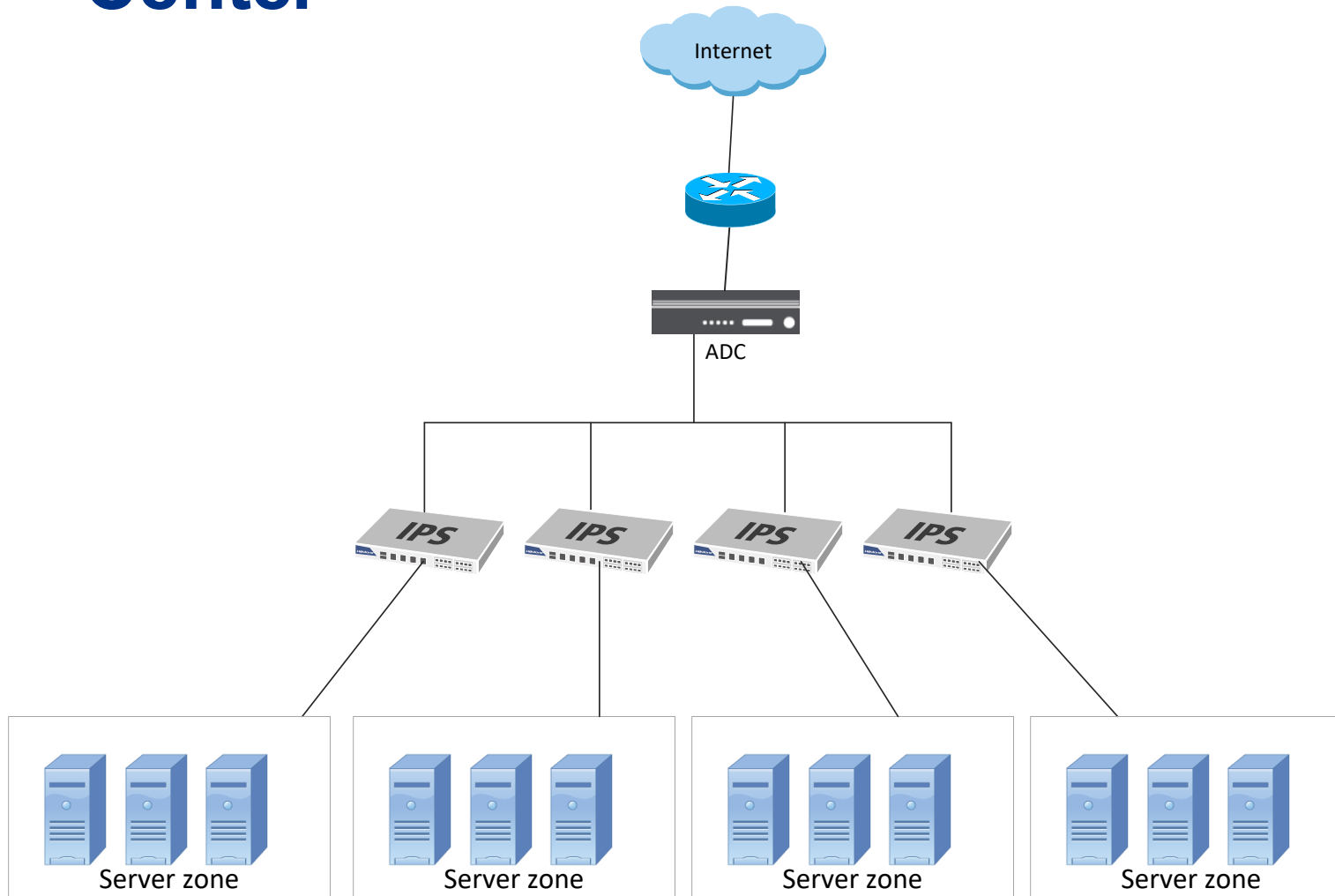
Products

- S Series

Market

- Education
- Enterprises
- Government

S-Series Deployment in Service Provider/Data Center



Requirements

- Protection against sophisticated attacks
- High performance

Solutions

- Integrate with ADC
- Strong defensive capabilities
- Deep visibility from L2 – L7
- Unknown threat detection
- Automated analysis and mitigation

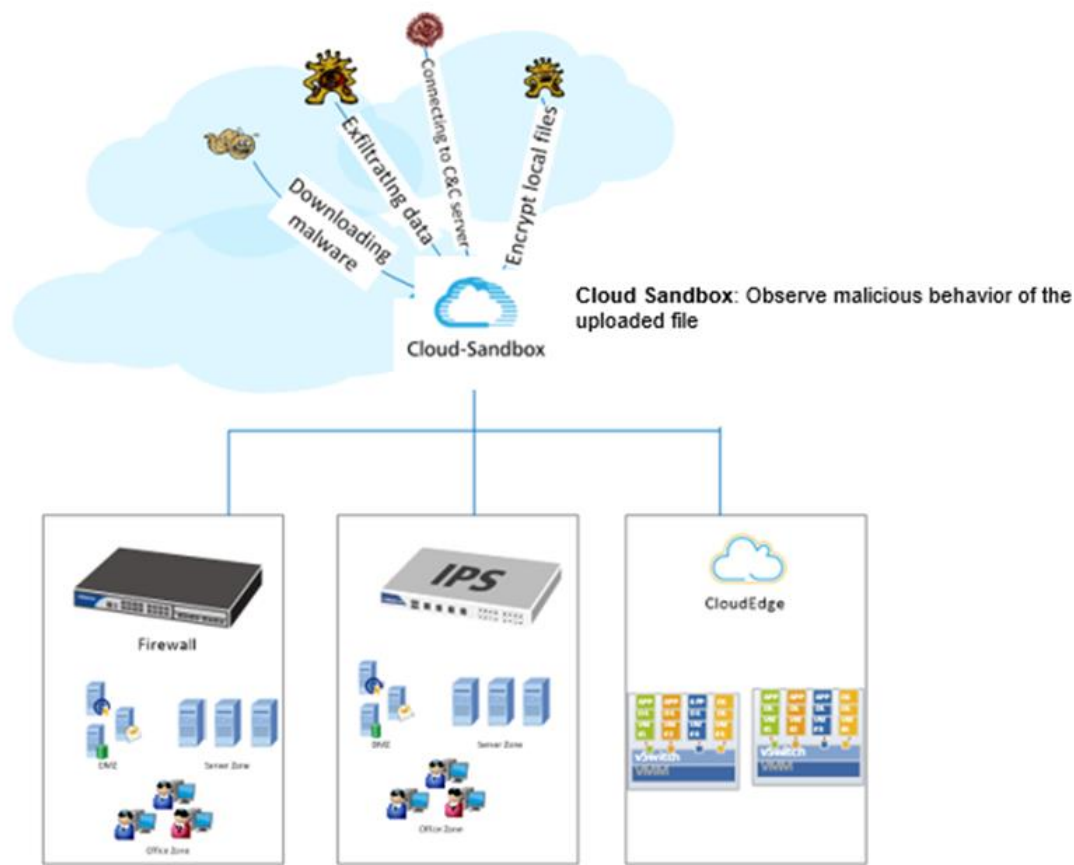
Products

- S-Series

Market

- Service Provider
- Data Center

Using Cloud Sandbox to Detect Advanced Threats



Requirements

- Protection against advanced threats

Solutions

- Static and dynamic analysis
- Unknown threat detection

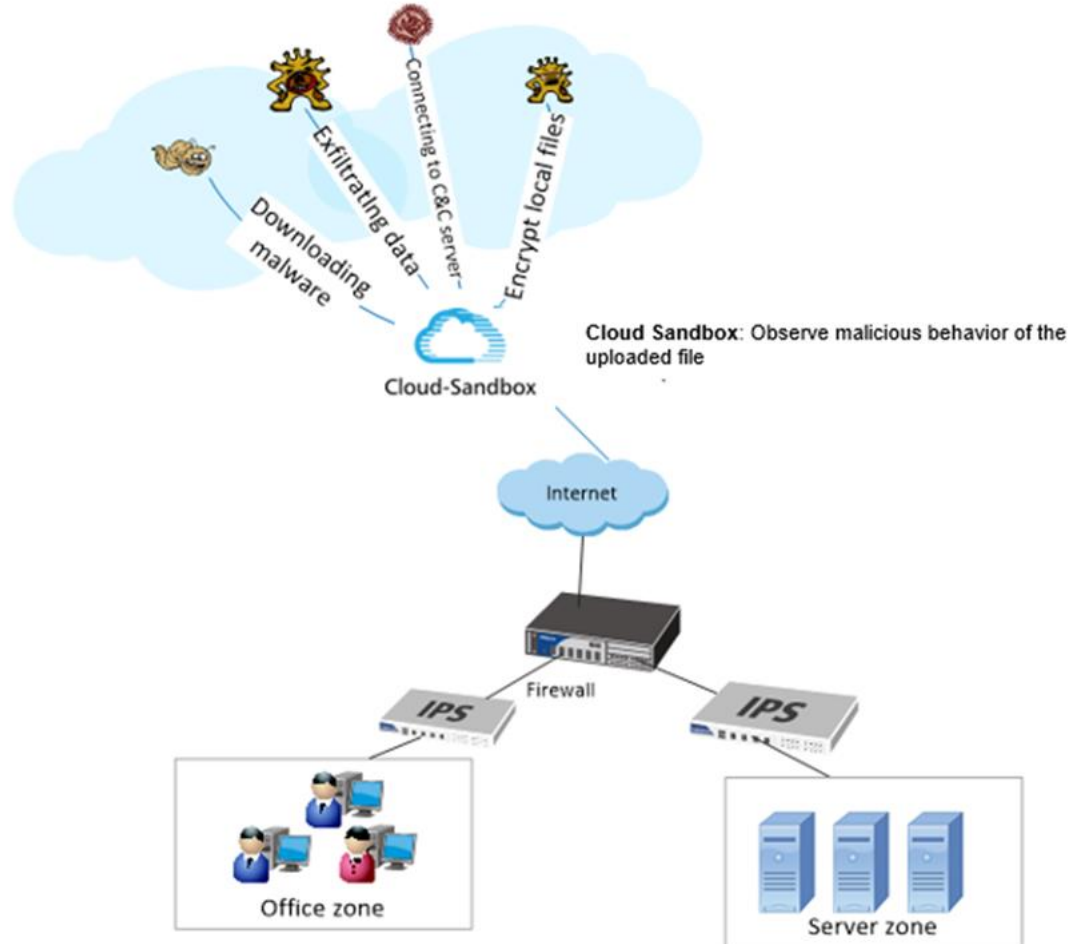
Products

- E/T Series with Sandbox enabled
- S-Series with Sandbox enabled
- CloudEdge with Sandbox enabled

Market

- Education
- Enterprises
- Government
- Finance

Solution Against Ransomware



Requirements

- Protection against ransomware

Solutions

- Antivirus against known ransoms, 10,000,000+ signatures. In breaching stage.
- Sandbox against unknown ransoms. In breaching stage.
- C&C server detection based on behavior analysis. In post-breaching stage.
- Abnormal behavior analysis in post-breaching stage.

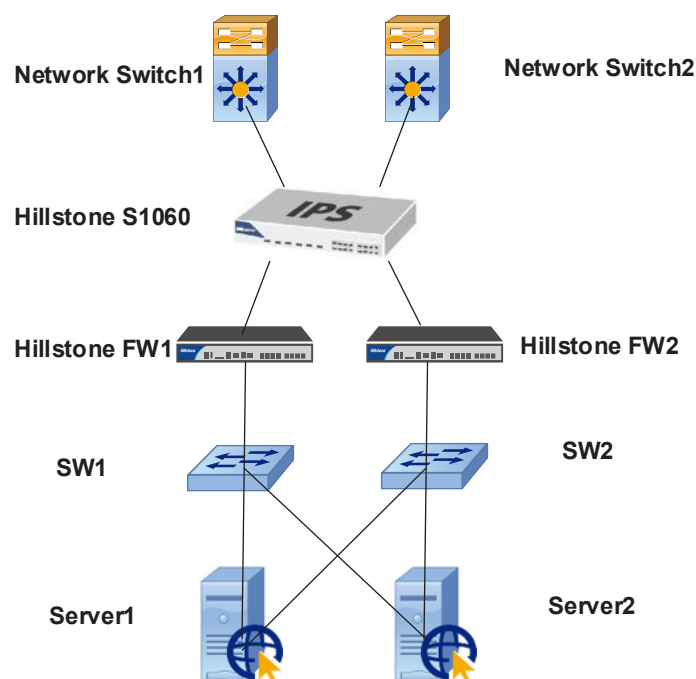
Products

- S/T Series with AV, Sandbox, StoneShield
- E-Series/CloudEdge with AV, Sandbox

Market

- Education
- Enterprises
- Government
- Finance

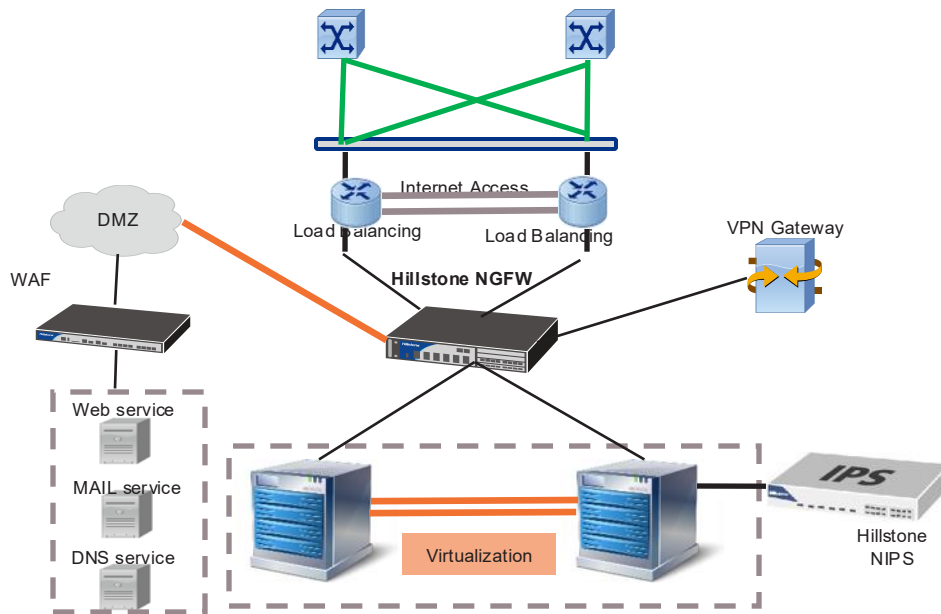
Winning Case 1: Protect Critical Business for a Commercial Bank



Hillstone NIPS Offerings and Benefits

- Inline deployment in transparent mode, between core switch and critical servers (SMBs business) in Tier 1 branch network, with the objective to detect and block attacks in real-time.
- Business availability and continuity for SMB customers have enhanced significantly after the deployment
- Two pairs of bypass interfaces ensure network connection even in the face of power outages.
- Expansion capability protects customer investment during network upgrades.

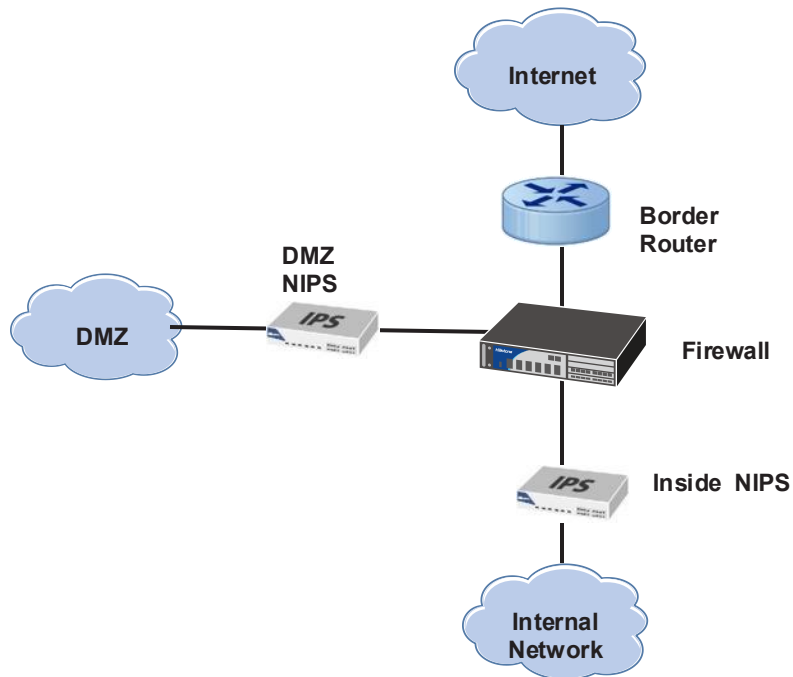
Winning Case 2: Protect a National Supercomputing Center



Hillstone NIPS Offerings and Benefits

- The complete solution includes the Hillstone high-end E-Series NGFW and NIPS solution, providing a 360 degree protection to the supercomputing center's internal network and business servers.
- The Hillstone NGFW is deployed as an internet gateway, with the Hillstone NIPS deployed in tapping mode in the business server zones, continuously detecting threats and protocol abnormality in real-time.
- After being in production for one year, the system has detected and prevented several large-scale worm, injection and C&C attacks, which ensured network connectivity and business continuity for the customer.

Winning Case 3: Protect DMZ for a Local Government Agency



Hillstone NIPS Offerings and Benefits

- Deployed inline between DMZ and the internet to detect and block threats real-time
- Meets compliance requirement from the government
- Prevents public information leakage, and ensures public service continuity

NIPS Customers



Royal Thai Armed Forces
Government
Thailand, SEA, S2160



Perusahaan Listrik Negara
Energy
Indonesia, SEA, S1560



山东省人民政府
People's Government of Shandong Province

People's Government of
Shandong Province
Government
China, S1060, S2060



Shanghai Ministration of Civil
Service
Government
China, S2560, S3560



华夏银行
HUAXIA BANK
Huaxia Bank
Finance
China, S2160



China Guodian
Energy
China, S1060



Bank of Tibet
Finance
China, S1060, S3860



China Telecom
Internet Carrier
China, S3560



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Economics
Education
China, S1560



Sunshine Insurance Group
Finance
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MediVision