HP TippingPoint S1200N IPS A7500 Module

Product overview

The HP TippingPoint S1200N IPS module is the first network-embedded security blade featuring the industry-leading TippingPoint technology, and the first IPS module for the HP A-series (Advanced) networking portfolio. It enables the integration of the TippingPoint advanced IPS solution directly into the switch chassis through backplane connectivity, while providing the capability to use external ports on the blade similar to a traditional IPS appliance. The S1200N IPS module is available for the HP A7500 series switch, making it suitable for deployment in the data center as well as the network core. It provides 1.3 Gbps of inspected traffic throughput per blade, and can support up to 10 blades per chassis to provide scalability for the most demanding enterprise environments. It also simplifies networks by reducing the number of boxes that need to be deployed, simplifying network management, and reducing the power and space requirements without compromising security or performance.

Key features

• Proven In-line Real-time Threat Protection
• Extensible Framework for Future Security Needs
• Scalable Modular Threat Suppression Engine
• High Availability Fault-Tolerant Design
• Centrally Managed from SMS Management Console

Features and benefits

Data center protection

- **High performance:** built in to the switching hardware to improve performance

Intrusion detection/prevention system (IPS/IDS)

- **Modular Threat Suppression Engine delivers years of future threat protection:** the S1200N IPS module includes a Threat Suppression Engine (TSE) that provides the deep packet inspection analysis to quickly identify threats. The TSE is a modular architecture that can accommodate future security filters. Based on a proprietary architecture of custom ASICs, the TSE performs thousands of checks on each packet flow in parallel to maximize throughput and security analysis capabilities.

- **Digital Vaccine service offers the fastest attack protection to stay ahead of threats:** the Digital Vaccine service (offered separately) ensures up-to-date protection against emerging threats. Digital Vaccines are delivered to customers twice a week, or immediately when critical vulnerabilities emerge, and can be deployed with no IT interaction required. Digital Vaccines are created not only to address specific exploits, but also attack permutations, protecting customers from zero-day threats

- **DVLabs offers the industry's best threat research and protection:** the HP TippingPoint DVLabs team is the premier security research organization for vulnerability discovery and analysis. The team consists of industry-recognized security researchers that apply their cutting-edge engineering and analysis talents in their daily operations. Among IPS solutions, HP TippingPoint is the undisputed leader in the number of vulnerability discoveries.

- **Reputation DV service eliminates "known bad" traffic:** as threats continue to increase, a strategy for eliminating connections to "known bad" Internet sources enables optimal use of IPS resources, and enhances overall network protection. The S1200N IPS module has an optional reputation function that blocks traffic from malicious devices based on reputation score, which is continually updated based on a global network of hosts that identify sources of spam and malware.

- **Zero-Day Initiative delivers rapid threat protection against new vulnerabilities and emerging threats:** DVLabs also manages the Zero-Day Initiative (ZDI), which is designed to reward worldwide researchers for responsibly disclosing vulnerabilities that they discover. DVLabs creates filters so our IPS customers are protected from potential zero-day attacks, even before the vulnerabilities are disclosed to the public.

- **Deep packet inspection:** module supports deep packet inspection and examines the packet payload as well as the frame and packet headers; packets are dropped if attacks or intrusions are detected using signature-based or protocol anomaly-based detection

- **Signature-based detection:** detects known attacks that have known attack patterns; IPS maintains a signature database that contains the pattern definitions for known attacks that can be automatically updated via a subscription service

- **Protocol anomaly-based detection:** detects attacks that use anomalies in application protocol payloads

Resiliency and high availability

- **High Availability and Failover Capability:** two S1200N IPS modules located in separate A7500 chassis can work together to provide high availability and redundancy; modules in the high availability cluster share connection state information to provide stateful failover.

Manageability

- **Centralized management platform:** multiple S1200N IPS modules can be centrally managed under a single console, along with all of the other HP TippingPoint IPS devices on the network, under the Security Management System (SMS) platform (available separately). SMS provides administration, configuration, monitoring and reporting for IPS devices network-wide. SMS is a zero-install rack mountable appliance that features a state-of-the-art client interface.

Warranty and support

- **1 year warranty:** with advance replacement and next business day delivery (available in most countries)

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Specifications

HP TippingPoint S1200N IPS A7500 Module (JC527A)

Ports	2 SFP 1000 Mbps ports
	2 RJ-45 1000 Mbps ports
	1 Compact Flash port
	1 RJ-45 serial console port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only
Physical characteristics	
Dimensions	13.7(d) x 15.7(w) x 1.6(h) in. (34.8 x 39.88 x 4.06 cm)
Weight	7.7 lb. (3.49 kg), Fully loaded
Performance	
Throughput	up to 1.3 Gbps
IPS/IDS throughput	1.3 Gbps inspected throughput
Concurrent sessions	6,500,000
New sessions/second	78K
Environment	
Operating temperature	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 95%, non-condensing
Non-operating/Storage temperature	-20°F to 45°F (-28.9°C to 7.2°C)
Services	Refer to the HP website at www.procurve.com/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Standards and protocols	**Denial of service protection**	Rate Limiting by ACLs	**IPv6**
	Automatic Filtering of well known Denial of Service Packets		RFC 2460 IPv6 Specification

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June 2010