

### Overview

### Models

HP S660N 750 Mbps 5 Gig-T/5 1Gb Fiber Segments IPS	JC019A
HP S1400N 1.5 Gbps 5 Gig-T/5 1Gb Fiber Segments IPS	JC020A
HP S2500N 3Gbps 5 Gig-T/1 10GbE/5 1GbE Fiber Segments IPS	JC021A
HP S5100N 5Gbps 5 GigT/1 10GbE/5 1GbE Fiber Segments IPS	JC022A

### Key features

- Industry-proven proactive network security
- Up-to-date and broad IPS protection
- Industry-leading security research team—DVLabs
- Minimized overall security costs and complexity
- Security compliance best practices

### Product overview

The HP S Intrusion Prevention System (IPS) N Series achieves a new level of in-line, real-time protection, providing proactive network security for today's and tomorrow's real-world network traffic and data centers. The IPS platform's next-generation architecture adds significant capacity for deep packet traffic inspection, and its modular software design enables the addition of valuable network protection services to its proven intrusion prevention solution. This new best-of-breed IPS platform redefines intrusion prevention as a foundation for comprehensive network security.

### Features and benefits

#### Technical features

- **Intrusion Prevention System (IPS):** The IPS N Series achieves a new level of in-line, real-time protection, providing proactive network security for today's and tomorrow's real-world network traffic and data centers. Its architecture adds significant capacity for deep packet traffic inspection, and its modular software design enables the convergence of additional security services.
- **Proven in-line threat protection:** Since 2001, we have been laser-focused on creating IPS solutions that provide proactive, in-line network protection while ensuring high network performance and availability. No network security solution remains in-line if it compromises network performance or uptime. According to a 2008 study by Infonetics Research, more enterprise IPS users use our IPS solutions in-line than any other.
- **New extensible security framework provides a foundation for growth:** The IPS platform includes an extensible security framework that has a modular software design built to support faster development and deployment of new IPS filter packages, security services, and partner security solution integrations.
- **New IPS security services:** The IPS N Series enables the convergence of new security services such as customer-defined IP DNS reputation entries, our Reputation Service, our Web Application Digital Vaccine (DV) Service, location-based policies (perimeter, core, etc.), and customer-developed protection filters.
- **Modular design for solutions integration:** The modular design of the IPS platform enables integrations with partner security solutions such as vulnerability assessment and vulnerability management (VA/VM) products, forensics solutions, security information management (SIM) systems, and network-based anomaly detection (NBAD) products.
- **Support for a broad set of traffic types:** The IPS platform supports a wide variety of traffic types and protocols. It provides uncompromising IPv6/v4 simultaneous payload inspection and support for related tunneling variants (4in6, 6in4, 6in6). It also supports inspection of IPv6/v4 traffic with VLAN and MPLS tags, mobile IPv4 traffic, GRE and GTP (GPRS tunneling), and jumbo frames. This breadth of coverage gives IT administrators the flexibility to deploy IPS protection wherever it is needed.
- **New threat suppression engine (TSE):** The IPS platform employs a new TSE to keep pace with the changing threats and



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evolving demands of today's enterprise networks and data centers. The TSE architecture utilizes custom ASICs and high-performance network processors to perform total packet flow inspection at Layers 2-7, performing thousands of checks on each packet flow simultaneously, and delivering a significant deep-packet inspection capacity increase to support new and future security services.

- **Proven reliability and redundancy:** The IPS platform is designed to deliver unparalleled high availability. This ensures that network traffic always flows at wire speed in the event of network error, internal device error, or even complete power loss. There are two complementary high availability modes of operation—Intrinsic High Availability and Stateful Network Redundancy—that ensure maximum uptime and availability for both the IPS platform and the security management system (SMS) devices.
- **Built-in high availability features:** The IPS platform has multiple features for Intrinsic High Availability, including dual hot-swappable power supplies; watchdog timers to continuously monitor the security and management engines, so if an internal error is detected, the IPS can automatically fail open; and Zero Power High Availability (ZPHA) options, so in the event of a power loss, the IPS interfaces can switch over to the ZPHA relay, allowing all traffic to pass unimpeded.
- **Redundant configuration options:** Two IPS platforms can be provisioned using redundant links in a transparent Active-Active or Active-Passive high availability mode. Because an IPS platform acts as a “bump in the wire,” does not have an IP address, and does not participate in routing protocols, it can be deployed in existing network designs without changing network configurations including high availability routing protocols such as VRRP, OSPF, and HSRP, which are passed transparently by the IPS.
- **High throughput inspection for data center and core network deployments:** The IPS N Series is designed for data center and network core protection. For these mission-critical network areas, our HP core controller solution combined with a pool of IPS platforms delivers automated, in-line inspection up to 20 Gbps to protect network devices, virtualization software, operating systems, and applications from attack without impeding performance.
- **Low application latency ensures no degradation of the end-user experience:** The IPS platform's unique design ensures that packet flows are fully inspected and move unimpeded through the platform with typical latency of less than 80 microseconds, independent of the number of filters or security services that are enabled. This eliminates any noticeable application performance impact from an end-user perspective.
- **Unmatched filter accuracy ensures legitimate traffic is not blocked:** We use two simple filter writing rules to guarantee filter accuracy—No False Positives and No False Negatives. That's why our DV Labs security research team focuses on creating filters to guard entire vulnerabilities, not just known exploits. Vulnerability filters block all exploits for a software vulnerability and provide unmatched levels of accuracy so the IPS will not block legitimate traffic while protecting the network.
- **Virtual patching protects unpatched systems:** DV Labs creates vulnerability filters that block all exploits for a given software vulnerability, creating a “virtual patch.” These vulnerability filters protect vulnerabilities in virtualization software, operation systems, and applications, and are not exploit specific. They behave like a network-based virtual software patch to protect downstream hosts from network-based attacks on unpatched vulnerabilities.
- **Purpose-built hardware and software:** Blocking cyber attacks at multi-gigabit speeds with extremely low latency requires purpose-built hardware and software. While others' solutions use general-purpose hardware and processors that are simply unable to perform without degrading network performance, our IPS platform provides thorough threat protection at multi-gigabit speeds, with very low latency.
- **Leading security research team—Digital Vaccine Labs (DVLabs):** DVLabs is the premier security research team for vulnerability discovery in the security industry. The team consists of industry recognized researchers who apply cutting-edge engineering and analysis in their daily operations. DVLabs is the undisputed leader in annual vulnerability discoveries, and the result is the creation of vulnerability filters that are delivered to customers' IPS platforms through the Digital Vaccine Service.
- **ThreatLinQ security portal:** ThreatLinQ is a service that allows our IPS customers to view the latest threats across the globe from data that is collected from a global network of Lighthouse monitoring devices and from the collection of data from thousands of customers IPS platforms. ThreatLinQ is available to all our customers and provides valuable data that can enable enterprises to more effectively hone their network security policies to meet the demands of the latest threat trends.
- **Industry's fastest threat protection keeps ahead of threats:** Our Digital Vaccine Service ensures evergreen (always up-to-date) protection against emerging threats. Digital Vaccines are delivered to customers twice a week, or immediately when critical vulnerabilities emerge, and they can be deployed automatically with no IT interaction required. Digital Vaccines are created not only to address specific exploits, but also potential attack permutations, protecting customers from zero-day threats
- **Zero-Day Initiative (ZDI) delivers leading zero-day threat protection:** DVLabs manages the ZDI program, which is designed to reward worldwide researchers for responsibly disclosing vulnerabilities they discover. Whether from DVLabs internal



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vulnerability research or the ZDI program, DVLabs passes all vulnerability discoveries to affected software vendors and creates IPS filters to protect customers from potential zero-day attacks before vulnerabilities are disclosed to the public.

- **Comprehensive IPS threat and vulnerability coverage for best-of-breed protection:** The combination of talent, research, and security intelligence from the world-class DVLabs research team; over 1,200 researchers in the ZDI program; ThreatLinQ global threat monitoring from thousands of sites; and security community partners like SANS Institute, CERT, and NIST—all these combine to provide the broadest threat and vulnerability coverage for the best-of-breed protection available today.
- **Full attack surface threat protection:** The HP IPS N Series provides the best vulnerability coverage in the IPS industry, including protection of network devices, virtualization software, operating systems, enterprise and Web applications, and industrial control system networks. From Microsoft® operating systems to SCADA and VoIP filters, and many more, HP TippingPoint solutions provide true network protection for today's complex enterprise IT environments.
- **Reputation DV Service eliminates “known bad” traffic:** The optional Reputation Digital Vaccine (Rep DV) Service provides IPv4, IPv6, and Domain Name System (DNS) security intelligence feeds from a DVLabs global reputation database, so customers can actively enforce and manage reputation security policies using the IPS platform. The IPS platform acts as an enforcement point, inspecting traffic in real time, identifying “known bad” traffic, and enforcing Rep DV security policies.
- **IPS automated, proactive protection eliminates most manual event follow-up:** Automated policy enforcement virtually eliminates the need to respond to myriad alerts (some real and some false), or to clean up after cyber attacks have compromised network resources. IT security costs are reduced by eliminating ad hoc patching and alert response, while simultaneously increasing IT productivity and profitability through bandwidth savings and protection of critical applications.
- **Eliminate emergency patching and protect systems from zero-day events:** Our vulnerability filters virtually eliminate the need for ad hoc and emergency patching. By protecting software vulnerabilities, IT staff can implement software patches using a regular, scheduled process instead of costly, disruptive emergency patching. The IPS N Series blocks attacks and allows IT staff to test security patches before deployment.
- **Improve control of end-user desktops:** Most IT teams cannot adequately control end-user desktops. In a recent report, client-side applications were shown to be increasingly difficult to keep patched due to the growing number of vulnerabilities. The IPS platform improves IT control through vulnerability protection for unpatched systems and network segmentation to stop the spread of malicious traffic from infected users, all while notifying the administrator where attacks originate.
- **Improve network performance by recapturing misused bandwidth:** The IPS N Series' bandwidth management capabilities stop rogue applications like peer-to-peer and streaming media from running rampant throughout the network. By continually cleansing the network of malicious and unwanted traffic, network performance is accelerated for mission-critical applications. And rate-shaping rogue applications can increase bandwidth availability, in some cases by 40-70%.
- **Easy to install in just minutes, minimizing IT burdens:** The IPS Platform significantly reduces the amount of time and resources needed to maintain a healthy network. The IPS and security management system (SMS) can both be easily installed in the network, typically in 30 minutes to two hours. The IPS is designed for network transparency and is deployed seamlessly into the network with no IP address or MAC address, so it can immediately begin filtering out malicious and unwanted traffic.
- **Easy-to-manage solutions reduce IT staff workload:** The SMS easily discovers, monitors, configures, diagnoses, and reports on multiple IPS platforms. It features a simple, state-of-the-art secure Java™ client interface that enables “big picture” analysis with trending reports, correlation and real-time graphs on traffic statistics, filtered attacks, network hosts and services, as well as IPS inventory and health.
- **Flexible local management options:** Every IPS unit also has an embedded local security manager (LSM) and command-line interface (CLI). The LSM is a Web GUI management application that provides administration, configuration, and reporting capabilities in an easy-to-use, secure Web interface.
- **Automated Digital Vaccine updates reduce ongoing management time:** Automated Digital Vaccine (DV) download and distribution capabilities reduce the time required to manage the IPS platform. The SMS allows for manual DV download and distribution, or automated DV download and manual distribution.
- **Simple but powerful security policies:** The IPS N Series allows security administrators to manage security policy with fine granularity. Administrators can set specific network security policies by network segment, by VLAN, or by CIDR (Classless Inter-Domain Routing). In addition, by utilizing the IPS platform's reputation capabilities and the Reputation Digital Vaccine, customers can now incorporate the use of IP addresses and DNS names into their security policy management.
- **Automated enforcement of security policies for compliance:** The IPS N Series can be a critical component in any IT compliance program. It addresses many compliance program objectives, including vulnerability management with the Digital Vaccine Service and network monitoring objectives with the security management system. In addition, the IPS may provide a “compensating control” where a requirement is not specifically satisfied with other solutions or processes.



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- **Robust security reporting provides auditor details:** Reporting from the IPS and SMS allows administrators to show internal and external auditors how the network is protected from the latest threats. In addition to meeting regulatory and internal compliance requirements, organizations can have the best security enforcement available for their networks.

### Warranty and support

- **1-year warranty:** with advance replacement and 30-calendar-day delivery (available in most countries)
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to: [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the support provided and the period during which support is available
- **Software releases:** refer to: [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the software releases provided and the period during which software releases are available for your product(s)



### Technical Specifications

#### HP S660N 750 Mbps 5 Gig-T/5 1Gb Fiber Segments IPS (JC019A)

<b>Ports</b>	10 RJ-45 autosensing 10/100/1000 ports (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 10 fixed Gigabit Ethernet SFP ports (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
<b>Physical characteristics</b>	<b>Dimensions</b> 24(d) x 16.87(w) x 3.42(h) in. (60.96 x 42.86 x 8.69 cm) (2U height) <b>Weight</b> 29.1 lb. (13.2 kg)
<b>Mounting</b>	19 or 23 inch wide rack—ears provided
<b>Performance</b>	<b>Latency</b> < 80 $\mu$ s <b>IPS/IDS throughput</b> 750 Mbps <b>Network throughput</b> 750 Mbps <b>Security contexts</b> 1,200,000 <b>Connections per second</b> 115,000 <b>Concurrent sessions</b> 6,500,000
<b>Environment</b>	<b>Operating temperature</b> 32°F to 104°F (0°C to 40°C) <b>Operating relative humidity</b> 5% to 95%, noncondensing <b>Nonoperating/Storage temperature</b> -4°F to 158°F (-20°C to 70°C) <b>Nonoperating/Storage relative humidity</b> 5% to 95%, noncondensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Current</b> 8 / 5 A <b>Frequency</b> 50 / 60 Hz
<b>Safety</b>	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022 Class A; AS/NZS 3548 Class A; ICES-003 Class A
<b>Immunity</b>	<b>ESD</b> EN 61000-4-2 <b>Radiated</b> EN 61000-4-3 <b>EFT/Burst</b> EN 61000-4-4 <b>Surge</b> EN 61000-4-5 <b>Conducted</b> EN 61000-4-6 <b>Voltage dips and interruptions</b> EN 61000-4-11 <b>Harmonics</b> EN 61000-3-2 <b>Flicker</b> EN 61000-3-3
<b>Management</b>	Security Management Server (SMS); command-line interface; Web browser; HP TippingPoint IPS MIB
<b>Notes</b>	Performance footnotes: <ul style="list-style-type: none"><li>• IPS/IDS Throughput represents the inspection throughput levels measured with recommended security profiles.</li><li>• Network Throughput represents the maximum throughput levels that can be achieved with the use of traffic forwarding.</li></ul>



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- Typical Latency is measured on packet sizes up to 1518 bytes.
- Concurrent Network Sessions is the maximum number of concurrent network sessions that can be supported by the IPS.
- Security Contexts is the maximum number of sessions with security state that can be supported by the IPS.

**Services** 3-year, 24x7 next-business-day hardware advance exchange, 24x7 SW phone support and SW updates (UX067E)

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.com/networking/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.

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### HP S1400N 1.5 Gbps 5 Gig-T/5 1Gb Fiber Segments IPS (JC020A)

<b>Ports</b>	10 RJ-45 autosensing 10/100/1000 ports (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 10 fixed Gigabit Ethernet SFP ports
<b>Physical characteristics</b>	<b>Dimensions</b> 24(d) x 16.8(w) x 3.42(h) in. (60.96 x 42.67 x 8.69 cm) (2U height) <b>Weight</b> 28.99 lb. (13.15 kg)
<b>Mounting</b>	19 or 23 inch wide rack—ears provided
<b>Performance</b>	<b>Latency</b> < 80 $\mu$ s <b>IPS/IDS throughput</b> 1.5 Gbps <b>Network throughput</b> 1.5 Gbps <b>Security contexts</b> 1,200,000 <b>Connections per second</b> 115,000 <b>Concurrent sessions</b> 6,500,000
<b>Environment</b>	<b>Operating temperature</b> 32°F to 104°F (0°C to 40°C) <b>Operating relative humidity</b> 5% to 95%, noncondensing <b>Nonoperating/Storage temperature</b> -4°F to 158°F (-20°C to 70°C) <b>Nonoperating/Storage relative humidity</b> 5% to 95%, noncondensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Current</b> 8 / 5 A <b>Frequency</b> 50 / 60 Hz
<b>Safety</b>	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022 Class A; AS/NZS 3548 Class A; ICES-003 Class A
<b>Immunity</b>	<b>ESD</b> EN 61000-4-2 <b>Radiated</b> EN 61000-4-3 <b>EFT/Burst</b> EN 61000-4-4 <b>Surge</b> EN 61000-4-5 <b>Conducted</b> EN 61000-4-6



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Voltage dips and interruptions	EN 61000-4-11
Harmonics	EN 61000-3-2
Flicker	EN 61000-3-3

### Management Notes

Security Management Server (SMS); command-line interface; Web browser; HP TippingPoint IPS MIB  
Performance footnotes:

- IPS/IDS Throughput represents the inspection throughput levels measured with recommended security profiles.
- Network Throughput represents maximum throughput levels that can be achieved with the use of traffic forwarding.
- Typical Latency is measured on packet sizes up to 1518 bytes.
- Concurrent Network Sessions is the maximum number of concurrent network sessions that can be supported by the IPS.
- Security Contexts is the maximum number of sessions with security state that can be supported by the IPS.

### Services

3-year, 24x7 next-business-day hardware advance exchange, 24x7 SW phone support and SW updates (UX068E)

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.com/networking/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.

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### HP S2500N 3Gbps 5 Gig-T/1 10GbE/5 1GbE Fiber Segments IPS (JC021A)

Ports	10 RJ-45 autosensing 10/100/1000 ports (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 10 fixed Gigabit Ethernet SFP ports 2 XFP 10-GbE ports (IEEE 802.3ae Type 10Gbase-LR); Duplex: full only
Physical characteristics	<b>Dimensions</b> 24(d) x 16.88(w) x 3.42(h) in. (60.96 x 42.88 x 8.69 cm) (2U height) <b>Weight</b> 31.5 lb. (14.29 kg)
Mounting	19 or 23 inch wide rack—ears provided
Performance	<b>Latency</b> < 80 $\mu$ s <b>IPS/IDS throughput</b> 3 Gbps <b>Network throughput</b> 15 Gbps <b>Security contexts</b> 2,600,000 <b>Connections per second</b> 230,000 <b>Concurrent sessions</b> 10,000,000
Environment	<b>Operating temperature</b> 32°F to 104°F (0°C to 40°C) <b>Operating relative humidity</b> 5% to 95%, noncondensing <b>Nonoperating/Storage temperature</b> -4°F to 158°F (-20°C to 70°C) <b>Nonoperating/Storage relative humidity</b> 5% to 95%, noncondensing



### Technical Specifications

Electrical characteristics	<b>Voltage</b>	100-240 VAC
	<b>Current</b>	8 / 5 A
	<b>Frequency</b>	50 / 60 Hz
<b>Safety</b>	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance	
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022 Class A; AS/NZS 3548 Class A; ICES-003 Class A	
<b>Immunity</b>	<b>ESD</b>	EN 61000-4-2
	<b>Radiated</b>	EN 61000-4-3
	<b>EFT/Burst</b>	EN 61000-4-4
	<b>Surge</b>	EN 61000-4-5
	<b>Conducted</b>	EN 61000-4-6
	<b>Voltage dips and interruptions</b>	EN 61000-4-11
	<b>Harmonics</b>	EN 61000-3-2
	<b>Flicker</b>	EN 61000-3-3
<b>Management</b>	Security Management Server (SMS); command-line interface; Web browser; HP TippingPoint IPS MIB	
<b>Notes</b>	Performance footnotes: <ul style="list-style-type: none"><li>• IPS/IDS Throughput represents the inspection throughput levels measured with recommended security profiles.</li><li>• Network Throughput represents the maximum throughput levels that can be achieved with the use of traffic forwarding.</li><li>• Typical Latency is measured on packet sizes up to 1518 bytes.</li><li>• Concurrent Network Sessions is the maximum number of concurrent network sessions that can be supported by the IPS. The measured number was limited by the available test equipment.</li><li>• Security Contexts is the maximum number of sessions with security state that can be supported by the IPS.</li></ul>	
<b>Services</b>	3-year, 24x7 next-business-day hardware advance exchange, 24x7 SW phone support and SW updates (UX069E)  Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.	

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### HP S5100N 5Gbps 5 GigT/1 10GbE/5 1GbE Fiber Segments IPS (JC022A)

<b>Ports</b>	10 RJ-45 autosensing 10/100/1000 ports (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 10 fixed Gigabit Ethernet SFP ports 2 XFP 10-GbE ports (IEEE 802.3ae Type 10Gbase-LR); Duplex: full only	
<b>Physical characteristics</b>	<b>Dimensions</b>	24(d) x 16.88(w) x 3.42(h) in. (60.96 x 42.88 x 8.69 cm) (2U height)
	<b>Weight</b>	31.5 lb. (14.29 kg)
<b>Mounting</b>	19 or 23 inch wide rack—ears provided	
<b>Performance</b>	<b>Latency</b>	< 80 $\mu$ s
	<b>IPS/IDS throughput</b>	5 Gbps



### Technical Specifications

	Network throughput	15 Gbps
	Security contexts	2,600,000
	Connections per second	230,000
	Concurrent sessions	10,000,000
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	5% to 95%, noncondensing
	Nonoperating/Storage temperature	-4°F to 158°F (-20°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing
Electrical characteristics	Voltage	100-240 VAC
	Current	8 / 5 A
	Frequency	50 / 60 Hz
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CSA 22.2 60950-1; ROHS Compliance	
Emissions	FCC Class A; VCCI Class A; EN 55022 Class A; AS/NZS 3548 Class A; ICES-003 Class A	
Immunity	ESD	EN 61000-4-2
	Radiated	EN 61000-4-3
	EFT/Burst	EN 61000-4-4
	Surge	EN 61000-4-5
	Conducted	EN 61000-4-6
	Voltage dips and interruptions	EN 61000-4-11
	Harmonics	EN 61000-3-2
	Flicker	EN 61000-3-3
Management	Security Management Server (SMS); command-line interface; Web browser; HP TippingPoint IPS MIB	
Notes	Performance footnotes: <ul style="list-style-type: none"><li>• IPS/IDS Throughput represents the inspection throughput levels measured with recommended security profiles.</li><li>• Network Throughput represents the maximum throughput levels that can be achieved with the use of traffic forwarding.</li><li>• Typical Latency is measured on packet sizes up to 1518 bytes.</li><li>• Concurrent Network Sessions is the maximum number of concurrent network sessions that can be supported by the IPS. The measured number was limited by available test equipment.</li><li>• Security Contexts is the maximum number of sessions with security state that can be supported by the IPS.</li></ul>	
Services	3-year, 24x7 next-business-day hardware advance exchange, 24x7 SW phone support and SW updates (UX070E)	

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### Accessories

HP S Intrusion Prevention System (IPS) N Series  
Mounting Kit  
accessories      HP Slide Kit Quick Release

JC017A

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