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HPE Networking Instant On Secure Gateway QuickSpecs

Improve your network security and expand your business

The HPE Networking Instant On Secure Gateways are cloud-managed gateways designed for small and growing businesses looking to enhance the security of their network or safely expand to new locations. These gateways, purpose-built for SMBs, provide 24x7 network monitoring, an IDS/IPS engine, and domain blocking for enhanced protection. Thanks to hardware acceleration, with all these features active, the gateway can still provide near-line rate throughput.

Overview



Protecting SMBs from growing cyber threats

Cyber threats continue to target SMBs worldwide, primarily through ransomware and phishing scams. These attacks take advantage of vulnerable networks, hoping that users won't notice or double-check anything suspicious. HPE Networking Instant On Secure Gateways provide robust protection by monitoring all network traffic to prevent harmful files from infiltrating your network environment. The gateways also enable site-to-site communication between Instant On secured sites over VPN, ensuring connections between locations remain protected from cybercriminals.

Enhanced security with the HPE Networking Instant On Secure Gateway SG1004

The HPE Networking Instant On Secure Gateway SG1004 is a 1G secure gateway featuring one uplink (WAN) port, two downlink (LAN) ports, and one configurable uplink/downlink port. With a stateful firewall throughput of 930 Mbps, it's ideal for protecting businesses with less than one Gigabit total throughput from their ISP. The compact design and external power supply make it perfect for branch offices or small businesses like accounting firms or retail shops.

Advanced performance with the HPE Networking Instant On Secure Gateway SG2505P

For larger environments, the HPE Networking Instant On Secure Gateway SG2505P offers five ports, two of them providing multigigabit support. One multi-gig uplink (WAN) port, one multi-gig configurable port (WAN/LAN), one gig configurable port (WAN/LAN), and two one-gig ports (LAN). The 2505P has PoE support with a total power budget of 64W to power network devices such as Instant On access points. With a stateful firewall throughput of 2.3 Gbps, this gateway is ideal for businesses requiring over 1 Gigabit of total throughput from their ISP. Whether you're a small shop looking to keep the network simple or an AI startup needing to protect your large data workloads, the SG2505P will help you stay connected and more secure.

Powerful security and performance for SMBs

The HPE Networking Instant On Secure Gateways deliver a wide range of advanced technical features designed to boost network performance and enhance security for SMBs. One key feature is VPN, which provides encrypted site-to-site communication between Instant On Secure Gateway sites, allowing businesses to connect multiple locations more securely. Additionally, the built-in Intrusion Detection and Prevention System (IDS/IPS) actively monitors network traffic for suspicious activity and automatically blocks malicious content threats, ensuring the integrity of business data.

Overview

And with automatic firmware updates that keep security patches up to date and easy-to-use management through the Instant On cloud portal and mobile app, maintaining a more secure network has never been easier. The gateway also supports WAN resiliency through failover features, ensuring continuous network service even during ISP outage events.

For full details of technical features, see the Install and Configuration Guide here.

Standard Features

HPE Networking Instant On Secure Gateway features*

Firewall
Monitors and filters incoming and outgoing traffic based on predefined security rules. The firewall also prevents sessions from reaching the LAN when they originate from the WAN, unless a remote access policy is enabled.

IDS/IPS
IDS (Intrusion Detection System) and IPS (Intrusion Prevention System) are technologies used to monitor network traffic for suspicious activity and potential threats.

IDS
Detects and alerts administrators about possible security breaches or malicious activity within a network. IDS analyzes traffic for known attack patterns or anomalies; it does not actively block or prevent attacks.

IPS
Detects malicious activity and actively blocks or prevents those threats in real time. It can take automatic action to stop attacks, such as blocking IP addresses or terminating harmful connections.

IDS/IPS event logging
Malicious activities detected or blocked will be displayed in the Threats module of the Instant On app and web portal.

TPM 2.0 support
A more robust, flexible, and secure version of Trusted Platform Management, TPM 2.0 is designed to meet the needs of modern and future networking needs with an advanced level of security assurance.

Wired and wireless application visibility
See details of web applications accessed by clients, both wired and wireless, within the Instant On mobile app or web portal.

Site-to-site VPN
Connect sites together over a secure VPN when both have an Instant On Secure Gateway connected to the WAN.

Client VPN
Helps providing employee access to network resources remotely and securely, improving productivity and enhancing on-premises resource efficiency.

WAN failover
Provides a backup/failover mechanism to keep the network alive by falling over to a secondary source when the network’s connectivity with the primary source is down.

WAN load balancing
With two active WAN links, gateways can distribute network traffic across both links simultaneously to optimize performance, increase bandwidth utilization, and provide redundancy. This ensures efficient traffic flow and enhances reliability by preventing overloading of a single link.

Standard Features

PoE support (SG2505P only)

Total 64W PoE budget, power two 30W 802.3at devices such as VoIP phones, wireless access points, and security cameras, as well as any 15.4W 802.3af-compliant end devices, can be powered on by any of the four downlink ports with full POE support, mitigating the cost of additional electrical cabling and circuits that would otherwise be necessary for IP phone and WLAN deployments.

Locator LED

Allows admin users to have the LEDs on the gateway blink, simplifying troubleshooting by making it easy to locate a particular device within a rack.

Quite LED mode

Allows users to shut off gateway LEDs for deployments when the gateway needs to be hidden.

VLAN support

Offers some of the benefits of both bridging and routing. VLANs partition the network into logical segments, which provides better administration, security, and multicast traffic management.

*Some features highlighted will be introduced through future software updates.

Configuration Information

BTO Base Models

1000 Instant On Secure Gateway

Rule #	Description	SKU
1	HPE Networking Instant On Secure Gateway 4-port Gigabit SG1004	S0G33A
	HPE Networking Instant On Secure Gateway 4-port Gigabit SG1004	S0G33A

Notes: **Notes:**

- Drop down under power supply should offer the following options and results:
  Switch/Router/Power Supply to Wall Power Cord - Localized Option
  No Localized Power Cord Selected - AC3 Option
- OCA Only Model Selection Form - HPE Aruba Networsk > HPE NW Instant On > IOn Gateways: 1000 IOn Secure Gateway

BTO Base Models

2500 Instant On Secure Gateway

Description	SKU
HPE Networking Instant On Secure Gateway 5-port SmartRate 2.5G PoE+ 64W SG2505P	S0G34A
HPE Networking Instant On Secure Gateway 5-port SmartRate 2.5G PoE+ 64W SG2505P	S0G34A
HPE Networking Instant On Secure Gateway 5-port SmartRate 2.5G PoE+ 64W SG2505P	S0G34A
HPE Networking Instant On Secure Gateway 5-port SmartRate 2.5G PoE+ 64W SG2505P	S0G34A
HPE Networking Instant On Secure Gateway 5-port SmartRate 2.5G PoE+ 64W SG2505P	S0G34A

Notes:

- Drop down under power supply should offer the following options and results:
  Switch/Router to PDU Power Cord - B2B in NA, Mexico, Taiwan, and Japan or B2C ROW.
  Switch/Router/Power Supply to Wall Power Cord - Localized Option
  No Localized Power Cord Selected - AC3 Option
- OCA Only Model Selection Form - HPE Aruba Networsk > HPE NW Instant On > IOn Gateways: 2500 IOn Secure Gateway

Technical Specifications

	HPE Networking Instant On Secure Gateway SG1004(S0G33A)	HPE Networking Instant On Secure Gateway SG2505P(S0G34A)
Processor speed	2.0 GHz	2.0 GHz
Memory	2GB	4GB
Storage (Flash)	4GB eMMC	4GB eMMC
Physical characteristics		
WAN interface	1x 10/100/1000-Base-T Ethernet	1x 100/1000/2500-Base-T Ethernet
WAN/LAN configurable interface	1x 10/100/1000-Base-T Ethernet	1x 100/1000/2500-Base-T Ethernet 1x 10/100/1000-Base-T Ethernet
LAN Interfaces	2x 10/100/1000-Base-T Ethernet	2x 10/100/1000-Base-T Ethernet
Additional interfaces	–	1 USB-A 2.0
POE options	–	4 ports PoE Cl4
Dimensions (L x W x H)	1.73 x 6.46 x 7.48in (4.39 x 16.41 x 19.00cm)	1.73 x 12.19 x 9.22in (4.39 x 30.96 x 23.42cm)
Weight lb (kg)	2.27lbs (1.03kg)	5.29lbs (2.40kg)
Mounting options	Tabletop and wall	Tabletop, wall, telco rack
Performance		
Firewall performance*	980 Mbps	2.4 Gbps
Routing performance**	980 Mbps	2.4 Gbps
IDS/IPS performance***	980 Mbps	2.4 Gbps
VPN performance (IPSec)******	930 Mbps	2.3 Gbps
Max TCP concurrent sessions	16384	16384
Max VLAN	22	22
No of users	up to 100	up to 300
Notes: – *Packet size: 1518. Bi-directional traffic. 500 firewall rules. Test run for 30 min. – **Packet size: 1518. Bi-directional traffic. 500 firewall rules + 10 routes. Test run for 30 min. – ***Packet size: 1518. Bi-directional traffic. 500 firewall rules + 10 routes + IDPS enabled. Test run for 30 min. – ****Instant On Secure Gateway to Secure Gateway, UDP, packet size 1390.		
Electrical characteristics		
Frequency	50/60 Hz	50/60 Hz
AC voltage	100-240 VAC	100-127 / 200-240 VAC
Current	0.3A (12VDC - 1A)	0.8 A
Maximum power rating	12W	79.5 W
Idle power	2.3 W	5.6 W
PoE power	None	64 W Class 4 PoE
Power supply	External power adapter (included)	Internal power supply
Operating temprature	0-40C	0-40C
Operating humidity	15-95%	15-95%
No. of users	up to 100	up to 300
Regulatory		
Regulatory model number	RSVLC-2304	RSVLC-2305

Technical Specifications

Safety	Europe: EN 62368-1:2014 +A11:2017 EN 62368-1:2020 +A11:2020 US: UL 62368-1, 3rd Ed., Canada: CAN/CSA C22.2 No. 62368-1:19, 3rd Ed. Worldwide: IEC 62368-1:2014, 2nd Ed. IEC 62368-1: 2018, 3rd Ed. Taiwan: CNS-15598-1:2020 China: GB 4943.1:2022	Europe: EN 62368-1:2014 +A11:2017 EN 62368-1:2020 +A11:2020 US: UL 62368-1, 3rd Ed., Canada: CAN/CSA C22.2 No. 62368-1:19, 3rd Ed. Worldwide: IEC 62368-1:2014, 2nd Ed. IEC 62368-1: 2018, 3rd Ed. Taiwan: CNS-15598-1:2020 China: GB 4943.1:2022
Emissions	Europe: EN 55032:2015 + A11:2020, Class B EN 61000-3-2:2019 EN 61000-3-3:2013 US: FCC 47 CFR part 15B: 2021, Class B Canada: ICES-003 Issue 7: 2020, Class B Worldwide: VCCI-CISPR 32, Class B CISPR 32: 2016, Class B AS/NZS CISPR 32: 2015, Class B CNS 15936: 2020, Class B	Europe: EN 55032:2015 + A11:2020, Class B EN 61000-3-2:2019 EN 61000-3-3:2013 US: FCC 47 CFR part 15B: 2021, Class B Canada: ICES-003 Issue 7: 2020, Class B Worldwide: VCCI-CISPR 32, Class B CISPR 32: 2016, Class B AS/NZS CISPR 32: 2015, Class B CNS 15936: 2020, Class B
Immunity		
Generic certifications	CISPER 35: 2016	CISPER 35: 2016
EN	EN 55035:2017/A11:2020	EN 55035:2017/A11:2020
ESD	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6
Power Frequency Magnetic Field	IEC 61000-4-8	IEC 61000-4-8
Voltage dips & Interruptions	IEC 61000-4-11	IEC 61000-4-11
Harmonic	IEC/EN 61000-3-2	IEC/EN 61000-3-2
Flicker	IEC/EN 61000-3-3	IEC/EN 61000-3-3
RoHS	IEC/EN 63000:2018	IEC/EN 63000:2018

Summary of Changes

Date	Version History	Action	Description of Change
19-Oct-2026	Version 3	Changed	Survey link text was updated.
02-Feb-2026	Version 2	Changed	QuickSpecs was updated.
05-May-2025	Version 1	New	New QuickSpecs

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