HPE Networking Instant On Secure Gateways

Installation Guide

Instant On

Hewlett Packard Enterprise

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Chapter 1
About This Guide

This document describes hardware features for HPE Networking Instant On Secure Gateways. It provides a detailed overview of the physical and performance characteristics of each gateway model and explains how to install the gateway and its accessories.

Guide Overview

- HPE Networking Instant On Secure Gateways provides a detailed hardware overview each gateway and its components.
- Installation describes how to install each gateway and its components.
- Specifications, Safety, and Compliance lists each gateway's technical specifications and safety and regulatory compliance information.

Related Documentation

Complete management of an HPE Networking Instant On Secure Gateway requires the latest version of the Software User Guide: https://instant-on.hpe.com/techdocs/en/content/home.htm

Contacting Support

Table 1: *Contact Information*

Main Site	https://instant-on.hpe.com
Support Site	https://networkingsupport.hpe.com
Instant On Community Page and Knowledge Base	https://community.instant-on.hpe.com
North American Telephone	United States, Canada and Outlying Countries +1-800-943-4526 +1-650-750-0350
International Telephones	https://instant-on.hpe.com/contact-support
Security Incident Response Team (SIRT)	Site: https://support.hpe.com/hpesc/public/km/Security-Bulletin-Library Email: aruba-sirt@hpe.com

Chapter 2
HPE Networking Instant On Secure Gateways

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.

Package Checklist

Inform your supplier to check if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packing materials. Use these materials to repack and return the unit to the supplier if needed.

Table 2: *HPE Networking Instant On Secure Gateway 4p Gigabit SG1004*

Item	Quantity
Gateway SG1004	1
Power Adapter	1
Rubber Feet	4
Screws (M4, 16T, 20mm)	3
Screw Anchors	3
Tie Strap	1
Documentation Kit (5300-2678)	1

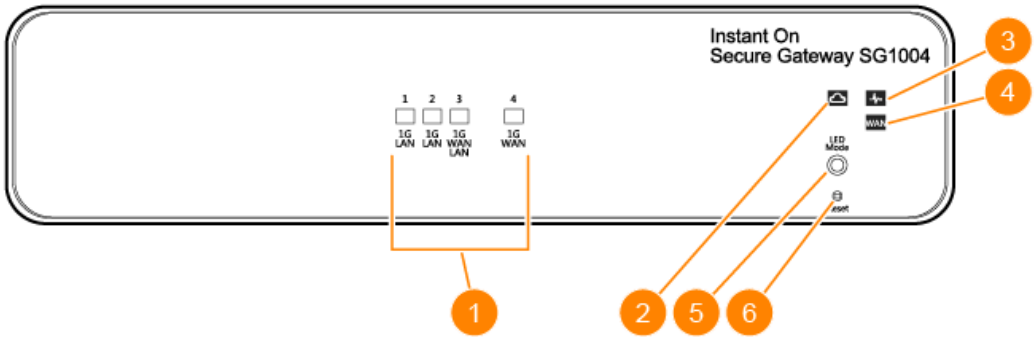
Table 3: *HPE Networking Instant On Secure Gateway 5p Smart Rate 2.5G Class4 PoE 64W SG2505P*

Item	Quantity
Gateway SG2505P	1
Power Cable	1
Rubber Feet	4
Mounting Brackets	2
Screws (M4, P0.7, 8mm)	8
Screws (#12, 24T, 16mm)	4
Tie Strap	1
Documentation Kit (5300-2678)	1

Gateway Components

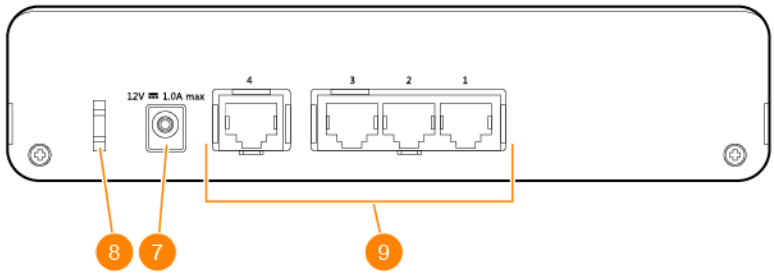
The following figures provide a hardware overview of HPE Networking Instant On Secure Gateways including all components.

Figure 1 *Front panel of Gateway SG1004*



Callout	Description
1	**Port LEDs** Indicates port status. (Default - Link/activity)
2	**Cloud LED** System-level LED, indicates connection status to cloud.
3	**Global Status** System-level LED, confirms power on/off and Global Status (overall system health).
4	**WAN Mode LED** System-level LED, confirms WAN mode status on/off.
5	**LED Mode Button** Selects LED mode.
6	**Reset Button** Resets the gateway to factory settings.

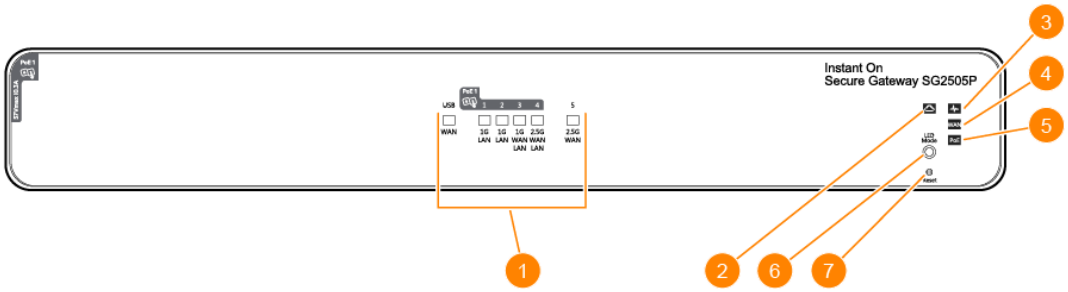
Figure 2 *Rear panel of Gateway SG1004*



Callout	Description
7	**DC Power Input**

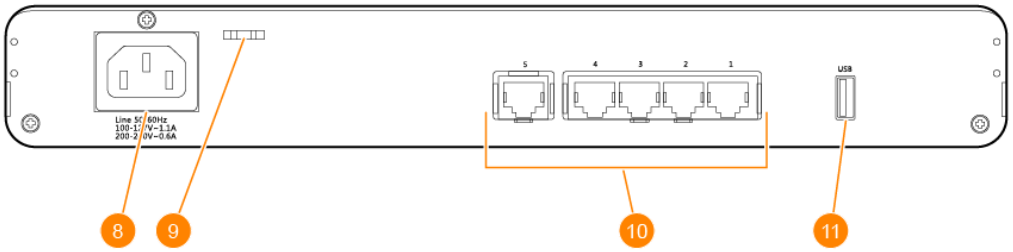
Callout	Description
	Connection for power adapter.
8	**D-lance** Relieves strain on power cable (cable management).
9	**RJ45 Ports** ■ Ports 1-2: 1GBe RJ45 LAN port ■ Port 3: 1GBe RJ45 WAN/LAN port ■ Port 4: 1GBe RJ45 WAN port

Figure 3 *Front panel of Gateway SG2505P*



Callout	Description
1	**Port LEDs** Indicates port status.
2	**Cloud LED** System-level LED, indicates connection status to cloud.
3	**Global Status** System-level LED, confirms power on/off and Global Status (overall system health).
4	**WAN Mode LED** System-level LED, confirms WAN mode status on/off.
5	**PoE Mode LED** System-level LED, confirms PoE status.
6	**LED Mode Button** Selects LED mode
7	**Reset Button** Resets the gateway to factory settings.

Figure 4 *Rear panel of Gateway SG2505P*



Callout	Description
8	**AC Power Input** Connection for power cord.
9	**D-lance** Relieves strain on power cable (cable management).
10	**RJ45 Ports** ■ Ports 1-2: 1GBe RJ45 LAN port ■ Port 3: 1GBe RJ45 CL4 PoE WAN/LAN port ■ Port 4: 2.5GBe RJ45 WAN/LAN CL4 PoE port ■ Port 5: 2.5GBe RJ45 WAN port
11	**USB-A Port** For future use.

Power, Status, and Gateway LEDs

In addition to the LEDs on each port, there are three additional LEDs on the front panel that provides the overall status of the device. These LEDs provide basic monitoring of the overall status of the gateway.

Table 4: *Power, Status, and Gateway LEDs*

LED	State	Meaning
Global Status	Green (Solid)	Device powered on and operating normally.
	Green (Slow Flash)	Device is booting up. All other LEDs turned off.
	Green (Fast Flash)	The locator function has been enabled to help physically locate the standalone unit, stack or a specific unit within the stack.
	Amber (Slow Flash)	System fault detected. Blinks in unison with affected subsystem (PoE or Cloud).
	Off	Device is not powered.

LED	State	Meaning
Cloud	Green (Solid)	Device is fully operational and in cloud manage mode.
	Green (Slow Flash)	Device is in the process of establishing a connection to the cloud portal.
	Amber (Solid)	Device is unable to connect to the cloud.
	Amber (Slow Flash)	Onboarding issue. Flashes in unison with the amber Global Status LED.
	Green / Amber (Alternating Flash)	Device is connected to the cloud portal and is ready for setup through the mobile App/Portal. This state is temporary while the device is connected to the cloud portal but not fully setup.
	Off	Onboarding period is over. Reboot the gateway to initiate new onboarding.
WAN	Green (Solid)	WAN mode is selected. Port LEDs indicate WAN status.
	Green (Slow Flash)	WAN mode not selected and at least one WAN is offline or connecting. **NOTE:** When the device is not yet onboarded, the default WAN ports are considered offline if the onboarding server is not reachable.
	Off	WAN mode is not selected.
PoE (SG2505P only)	Green (Solid)	PoE mode is selected and there is no fault. Port LEDs indicate PoE status.
	Green (Slow Flash)	PoE mode has not been selected and there is insufficient power to power all ports. **NOTE:** Does not have precedence over "Amber (Slow Flash)".
	Amber (Solid)	PoE mode is selected and a port has an internal PoE hardware failure. The specific port LED with the fault will also flash.
	Amber (Slow Flash)	PoE mode as not been selected but a port has an internal PoE hardware failure. Flashes in unison with amber Global Status LED. **NOTE:** Has precedence over "Green (Slow Flash)".
	Off	PoE mode is not selected and there are no PoE hardware failres or denied power on ports.

Reset Button

HPE Networking Instant On Secure Gateways include a reset button for resetting the gateway configurations. Insert a pin into the reset button hole until you feel the pin touches a surface. Push and hold the pin for five seconds to reset the gateway to factory configuration. Push and hold the pin for less than five seconds to reboot the gateway.

Access Ports

HPE Networking Instant On Secure Gateways are equipped with following access ports:

Gateway SG1004

Four (1G) RJ45 ports consisting of:

- (1 & 2) 10/100/1000-Base-T [LAN]
- (3) 10/100/1000-Base-T [WAN/LAN]
- (4) 10/100/1000-Base-T [WAN]

Gateway SG2505P

Five RJ45 ports consisting of:

- (1 & 2) 10/100/1000-Base-T [LAN]
- (3) 10/100/1000-Base-T [WAN/LAN]
- (4) 100/1000/2500-Base-T [WAN/LAN]
- (5) 100/1000/2500-Base-T [WAN]

Ports 1 - 4 are PoE enabled CL4.

Network Ports

- Auto-sensing 10/100/1000BASE-T (or 100/1000/2500 Base-T where supported on SG2505P) ports:
  These ports have the “Auto-MDIX” feature, which means that you can use either straight-through or crossover twisted-pair cables to connect any network devices to the gateway.
- Power-over-Ethernet (PoE) ports:
  The SG2505P PoE Class 4 Gateway supports the IEEE 802.3at standard, which allows IP telephones, wireless LAN Access Points, and other appliances to receive power as well as data over existing LAN cabling. For further information regarding PoE power, see the Hewlett Packard Enterprise Web site at http://www.hpe.com/networking/ResourceFinder.

PoE Power

Instant On Security Gateway PoE Power Delivery

Power Over Ethernet (PoE) functionality is supported on the SG2505P model, known as power source equipment (PSE) ports which provide power to connected devices. The devices receiving power through PoE are referred to as powered devices (PDs). The gateway automatically detects the presence of a PD on a PSE port, and the gateway uses physical layer classification to assign initial power to the PD. After the PD has powered up, the gateway can refine the assigned power using LLDP communication messages from the PD. The PoE software supports two power modes to allocate power by Usage (default) or Class. The default Usage mode reclaims unused power for use by new PD connections or increased power demand by existing powered PDs. The configurable Class mode reserves the full PD requested class power from the total available power budget. Ports are assigned one of three configurable PoE priority values (Critical, High, and Low). When more power is requested than is available on the gateway, the gateway provides power to high priority ports before lower priority ports.

Power allocation can be scheduled so that power is supplied only during periods when the PD is actually in use. The SG2505P gateway supports the IEEE 802.3at™ standards providing 30W of power for Class 4 PD connections while

maintaining backwards compatibility with IEEE 802.3af™ standards providing 15.4W of power to Class 3 PD connections. All PoE Class 4 ports are capable of delivering 30W per PSE port up to the maximum power supply budget.

Gateway Model	Maximum PoE Power	PoE Enabled Ports	Maximum Ports delivering at 15.4W	Maximum Ports delivering at 30W[1]
HPE Networking Instant On Secure Gateway 5p Smart Rate 2.5G Class 4 PoE 64W SG2505P	64W	Ports 1 - 4	4	2

1: Instant On Secure Gateway SG2505P PoE ports 1-3 are 10/100/1000 RJ-45 ports. Port 4 can be either a 10/100/1000 or 100/1000/2500 RJ-45 port. Maximum 30W delivered per PoE port.

Ethernet Alliance PoE Certified

Certified HPE Networking PoE power sourcing equipment (PSE) has been verified for IEEE 802.3™ PoE interoperability by passing the Ethernet Alliance (Gen 1 or Gen 2) PoE Certified program test plan, minimizing interoperability issues between PoE products.

The Ethernet Alliance PoE Certification Program provides thorough testing of PoE devices for interoperability with IEEE 802.3™ PoE standard devices. Certified products will be easily recognizable by the logos below, which also identify the amount of power available or required. User experience will be enhanced by minimizing confusion between standards-based PoE from proprietary powering solutions.

Gen 1 EA PoE Certified Logo

Gen 2 EA PoE Certified Logo

For more information on EA PoE Certification, visit the Ethernet Alliance website.

Access Port LEDs

The LED on each access port allows you to monitor the status of each port. The LED provides basic monitoring such as link, activity and configuration of each port. The following table describes port LED behavior.

Table 5: *Port LEDs*

LED	State	Meaning
LINK/Activity (Default Setting)	Green (Solid)	Port is active, link has been established.
	Green (Blinking)	Port has activity, blink rate proportional to utilization.
	Amber (Solid)	Port has experienced a fault.
	Off	Port is inactive/unused.
Mode: WAN (Failover/Redundancy)	Green (Solid)	Port is in WAN mode - failover enabled.
	Amber (Solid)	Connectivity fault.
	Off	Port is in LAN mode - no failover.
Mode: PoE (SG2505P only)	Green (Solid)	Port is delivering PoE.
	Green (Slow Flash)	Port denied power or power revoked.
	Amber (Slow Flash)	Port PoE fault with detect or class issue. Flashes in unison with amber Global Status LED.
	Off	Port not delivering PoE.

USB Interface

SG2505P includes a USB 2.0 port, SG1004 does not.

SG2505P's USB port is inactive and reserved for potential future use..

Electrical Grounding

To meet safety and electromagnetic interference (EMI) requirements and to ensure proper operation, the gateway must be adequately grounded.

Comply with electrical grounding standards during all phases of installation and operation of the product. Do not allow the gateway's chassis, network ports, power supply, or mounting brackets to contact any device, cable, object, or person attached to a different electrical ground. Also, never connect the device to external storm grounding sources.

Chapter 3 Installation

This chapter describes all supported installation options for an HPE Networking Instant On Secure Gateway. The gateway ships with an accessory kit that includes the parts needed to install the gateway.

Installation of the device should be performed by a trained installation professional.

Installation Overview

1. Precautions
2. Selecting a Location
3. Installation Options and Parts
   a. Table or Shelf Installation
   b. Under Table Installation
   c. Wall Mount Installation
   d. Rack mount Installation
4. Power Cords

Precautions

This section includes installation and safety information to help prevent injury and/or damage to gateway components.

- Ensure that the rack is correctly and securely installed to prevent it from falling or becoming unstable.
- Never insert foreign objects into the chassis, the power supply, or any other component, even when the power supply is turned off, unplugged, or removed.
- Ensure that the main power is fully disconnected from the gateway by unplugging all power cords from their outlets. For safety, verify that the power outlets and plugs are easily reachable by the operator.
- Do not handle electrical cables which are not insulated, including network cables.
- Keep water and other fluids away from the gateway to minimize electrical hazards.
- Comply with electrical grounding standards during all phases of installation and operation of the product. Do not allow the gateway's chassis, network ports, or mounting brackets to contact any device, cable, object, or person attached to a different electrical ground. Also, never connect the device to external storm grounding sources.
- Perform installation or removal of the chassis or any module in a static-free environment. Proper use of anti-static body straps and mats is strongly recommended.
- Do not ship or store this product near strong electromagnetic, electrostatic, magnetic or radioactive fields.
- Do not disassemble the chassis.

Selecting a Location

HPE Networking Instant On Secure Gateways, like other network and computing devices, require an “electronic-friendly” environment.

- Reliable power
  Verify that your electrical outlet is compatible with the gateway's power supply.
- Cool, non-condensing ventilation
  Additional air conditioning or air circulation equipment may be required in installation locations containing a large number of electrical devices. For further information see *Environmental Specifications* in the Specifications chapter.
- Ample space
  For proper air circulation, leave at least 10 cm (4 inches) clearance all around the chassis.
  Leave additional space in the front and rear side of the chassis to access power cords, network cables, and indicator LEDs.
- Limited electromagnetic interference
  For best operation, keep the gateway and all cords and cables at least 0.7 meters (2.3 feet) from fluorescent lighting fixtures, and 2 meters (6.6 feet) from photocopiers, radio transmitters, electric generators, and other sources of strong electromagnetic interference.

Installation Options and Parts

HPE Networking Instant On Secure Gateway 4p Gigabit SG1004

Installation Options

- Table or Shelf Installation
- Under Table Installation
- Wall Mount Installation

Included Installation Parts

Kit 5300-2726 (S0G033A)

- 4 rubber feet
- 3 screws (M4, 16T, 20mm)
- 3 anchors
- 1 tie strap

HPE Networking Instant On Secure Gateway 5p Smart Rate 2.5G Class4 PoE 64W SG2505P

Installation Options

- Table or Shelf Installation
- Under Table Installation
- Wall Mount Installation
- Rack mount Installation

Included Installation Parts

Kit 5300-2727 (S0G034A)

- 4 rubber feet
- 8 screws (M4, P0.7, 8mm)
- 4 screws (#12, 24T, 16mm)
- 2 mounting brackets
- 1 tie strap

Table or Shelf Installation

This installation option allows an HPE Networking Instant On Secure Gateway to be installed on a table or shelf.

Installation Steps

1. Attach 4 rubber feet to the bottom of the gateway.

Figure 5 *Attaching 4 Rubber Feet to SG1004*

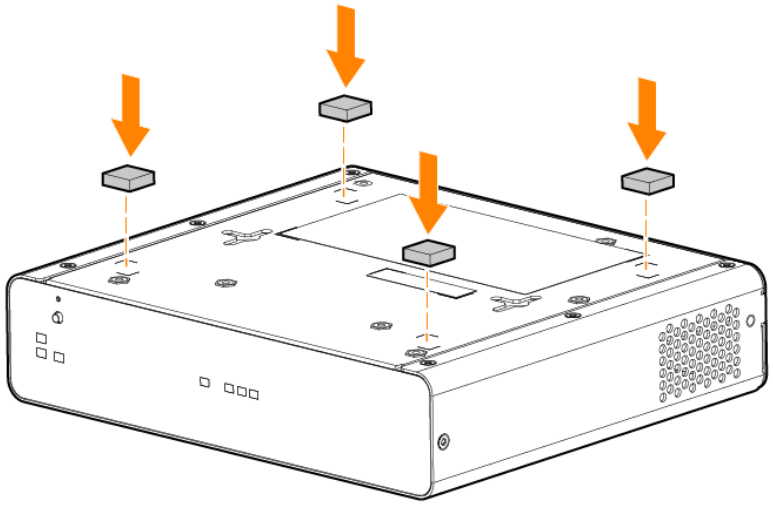
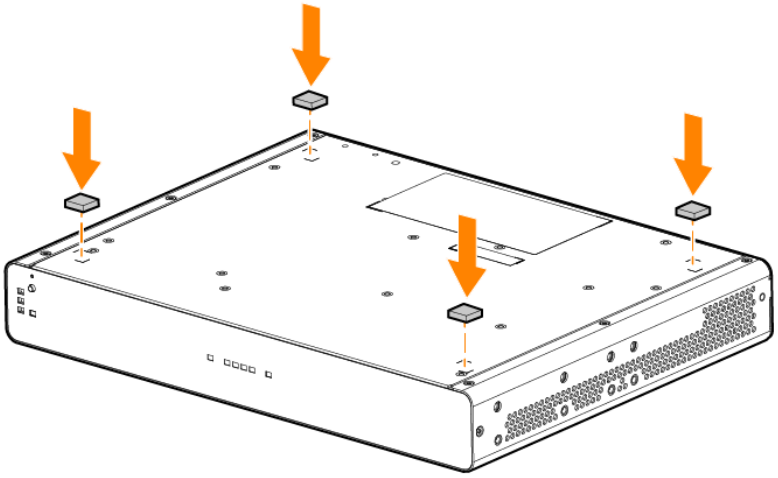


Figure 6 *Attaching 4 Rubber Feet to SG2505P*



2. Place your gateway on your table or shelf.

Under Table Installation

This installation option allows an HPE Networking Instant On Secure Gateway to be surface-mounted to the underside of a table.

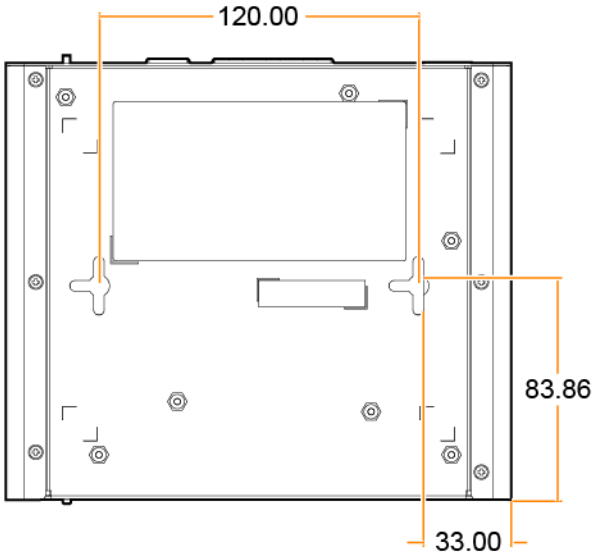
Under table installation requires your Gateway to be mounted with networking ports facing forward ***or*** backward.

Installation Steps

Gateway SG1004

1. Determine the installation location and position for your Gateway (networking ports must face forward ***or*** backward).
2. On the underside of the table where your Gateway will be mounted, mark the locations where mounting screws will be installed (see Figure 7).

Figure 7 *Mounting screw locations for Gateway SG1004*



3. Install mounting screws to the underside of the table at the locations you marked. If reinforcement is needed, install the anchors included with your gateway first, then install mounting screws (see Figure 8 and Figure 9).
4. Attach your Gateway to the mounting screws with networking ports facing forward ***or*** backward (see Figure 8 and Figure 9).
   - Insert mounting screw heads into the center of the Gateway's mounting holes, then slide the Gateway forward, backward or laterally, to secure it.
   - Install a third screw to the underside of the table, positioned as a stopper to prevent the Gateway from sliding off the mounting screws.

Figure 8 *Installing Gateway SG1004 to the underside of a table with networking ports facing forward*

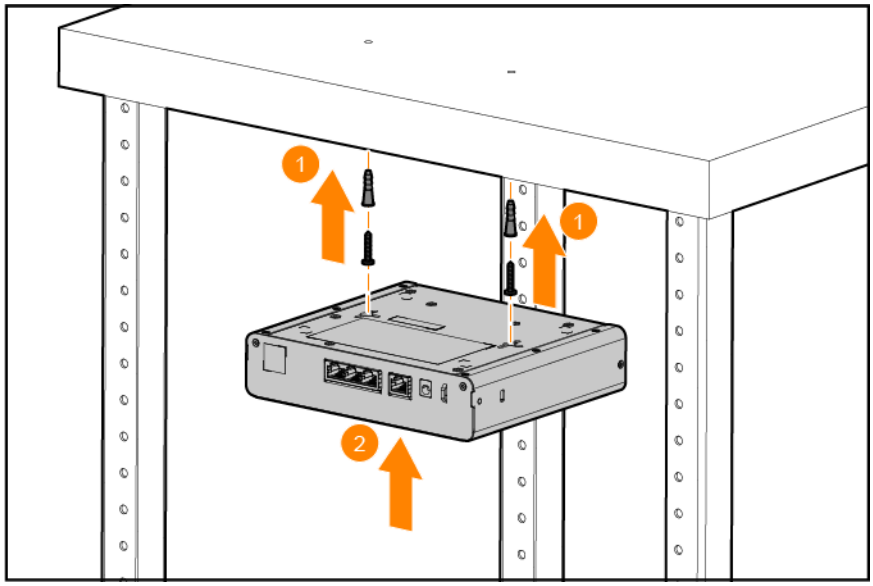
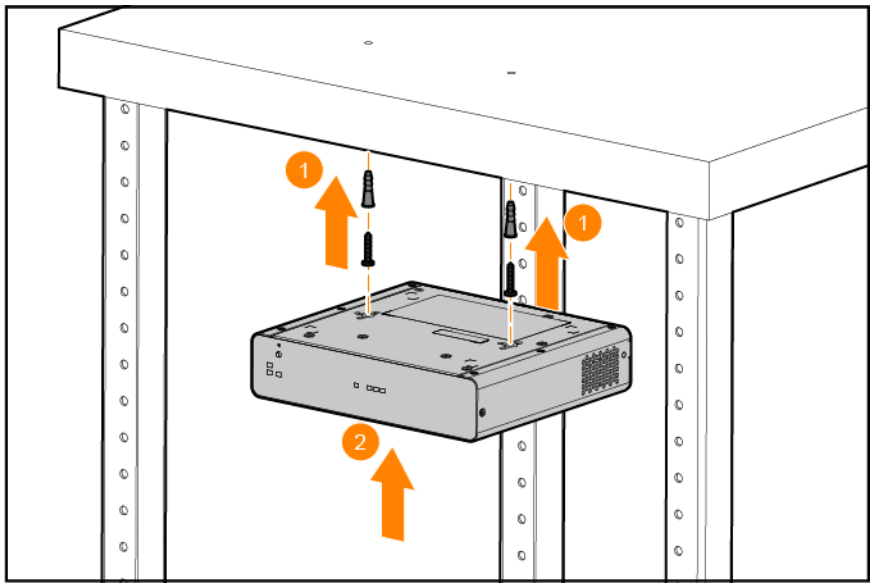


Figure 9 *Installing Gateway SG1004 to the underside of a table with networking ports facing backward*



Gateway SG2505P

NOTE

Under table installation for Gateway SG2505P requires (4) 5/8-inch number 12 wood screws that are not included with your Gateway.

1. Determine the installation location and position for your Gateway (networking ports must face forward ***or*** backward).
2. Attach included mounting brackets to the left and right sides of your Gateway using the 8 included (M4, P0.7, 8mm) screws. Ensure the brackets are installed in the proper orientation, with the flush mounting surface facing upward (away from the floor - see Figure 10 and Figure 11).
3. On the underside of the table where your Gateway will be mounted, hold the Gateway in the position and orientation where it will be installed. Using the mounting brackets as a template,

mark 4 mounting screw locations (see Figure 10 and Figure 11).

4. On the underside of the table, drill pilot holes at the 4 marked mounting screw locations (see Figure 10 and Figure 11).
5. On the underside of the table, align the Gateway's mounting bracket screw holes with the pilot holes (ensuring networking ports face forward or backward). Then install (4) 5/8-inch number 12 wood screws (not included), attaching the Gateway to the underside of the table (see Figure 10 and Figure 11).

Figure 10 *Installing Gateway SG2505P to the underside of a table with networking ports facing forward*

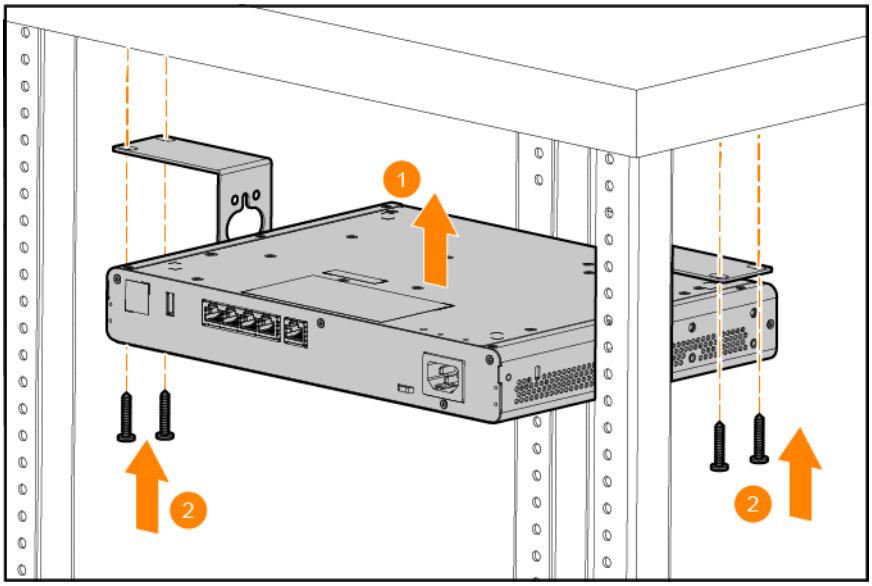
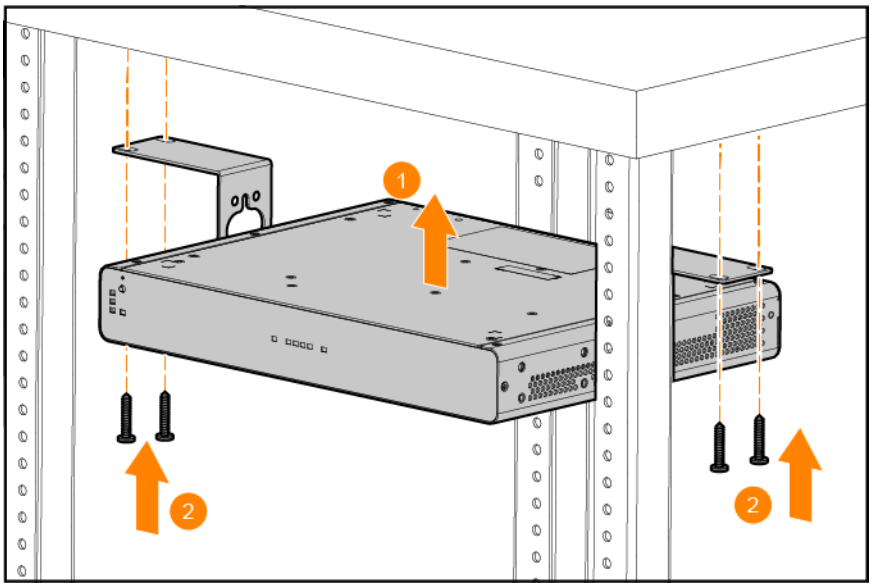


Figure 11 *Installing Gateway SG2505P to the underside of a table with networking ports facing backward*



Wall Mount Installation

This mounting option allows an HPE Networking Instant On Secure Gateway to be mounted to a wall.

CAUTION

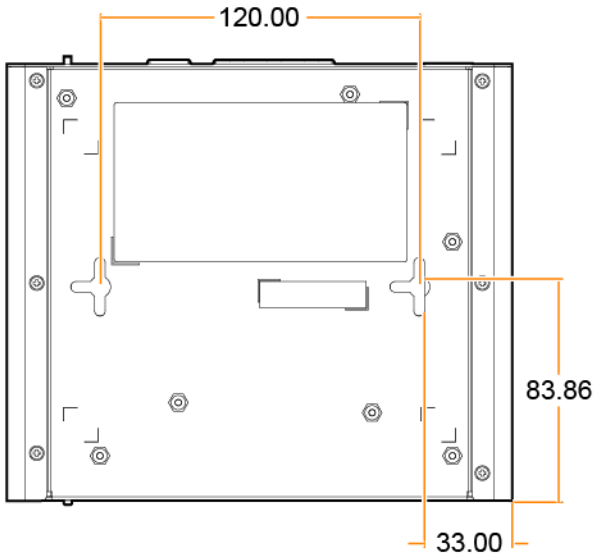
Wall mount installation requires your Gateway to be mounted with *network ports* facing upward ***or*** downward (toward or away from the floor). Do not wall mount your Gateway with *ventilation holes* facing upward or downward.

Installation Steps

Gateway SG1004

1. Determine the installation location and position for your Gateway. When mounted, networking ports must face upward ***or*** downward (toward or away from the floor).
2. On the wall where your Gateway will be mounted, mark the locations where mounting screws will be installed (see Figure 12).

Figure 12 *Mounting screw locations for Gateway SG1004*



3. Install mounting screws to the wall at the locations you marked. If reinforcement is needed, install the anchors included with your gateway first, then install mounting screws (see Figure 13 and Figure 14).
4. Attach your Gateway to the mounting screws with Networking ports facing upward ***or*** downward (see Figure 13 and Figure 14).
   - Insert mounting screw heads into the center of the Gateway's mounting holes, then slide the Gateway upward, downward or laterally, to secure it.
   - Install a third screw to the wall, positioned as a stopper to prevent the Gateway from sliding off the mounting screws.

Figure 13 *Mounting Gateway SG1004 to a wall with Networking ports facing upward (away from floor)*

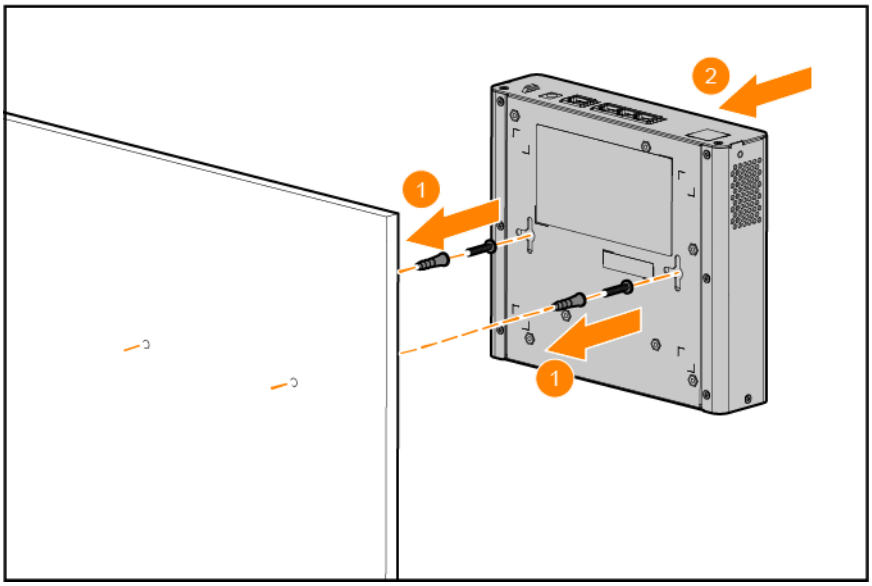
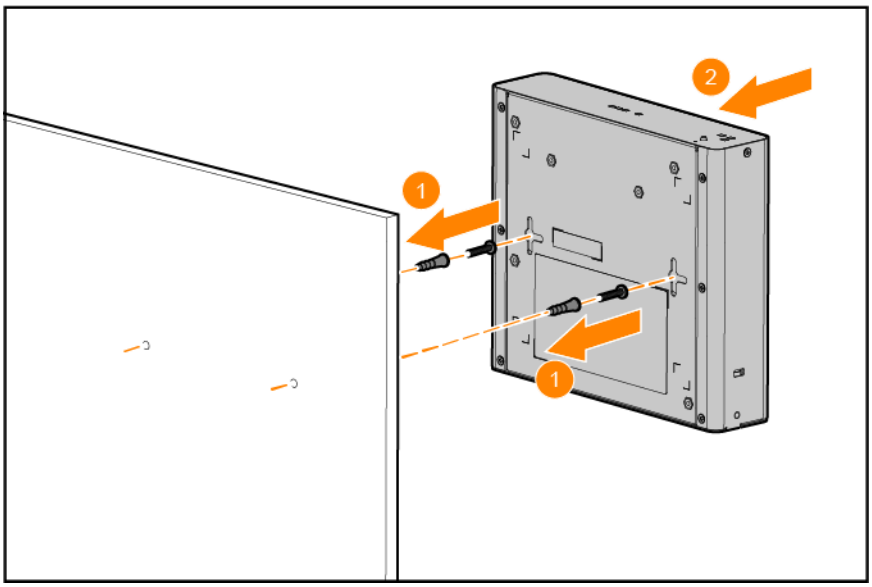


Figure 14 *Mounting Gateway SG1004 to a wall with Networking ports facing downward (toward floor)*



Gateway SG2505P

NOTE

Wall mount installation for Gateway SG2505P requires (4) 5/8-inch number 12 wood screws that are not included with your Gateway.

1. Determine the installation location and position for your Gateway (when mounted, networking ports must face upward ***or*** downward).
2. Attach included mounting brackets to the left and right sides of your Gateway using the 8 included (M4, P0.7, 8mm) screws. Ensure the brackets are installed in the proper orientation (see Figure 15 and Figure 16).
3. On the wall where your Gateway will be mounted, hold the Gateway in the position and orientation where it will be installed. Using the mounting brackets as a template, mark the 4

mounting screw locations (see Figure 15 and Figure 16).

4. On the wall where your Gateway will be mounted, drill pilot holes at the 4 marked mounting screw locations (see Figure 15 and Figure 16).
5. On the wall where your Gateway will be mounted, align the Gateway's mounting bracket screw holes with the pilot holes. Then install (4) 5/8-inch number 12 wood screws (not included), mounting the Gateway to the wall (see Figure 15 and Figure 16).

Figure 15 *Mounting Gateway SG2505P to a wall with networking ports facing upward (away from floor)*

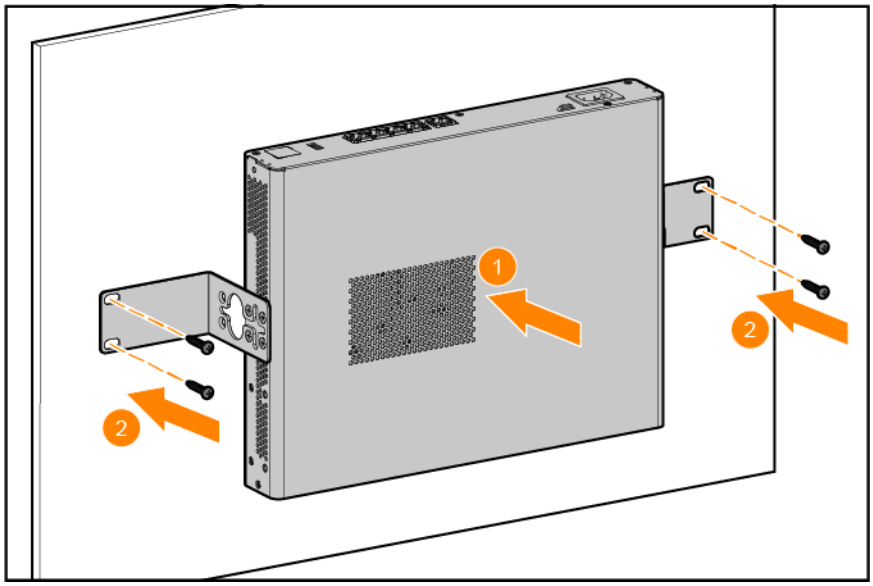
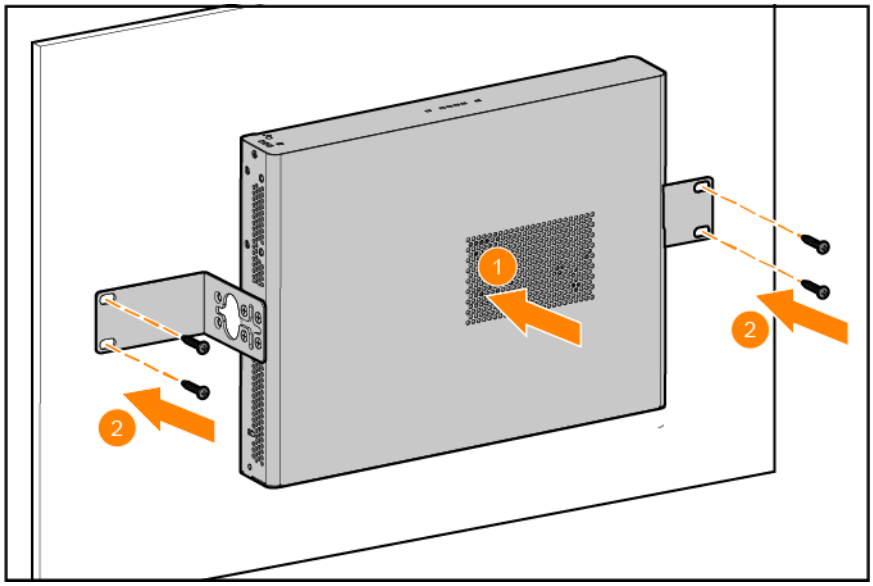


Figure 16 *Mounting Gateway SG2505P to a wall with networking ports facing downward (toward floor)*



Rack mount Installation

NOTE

Gateway SG2505P supports rack mounting. Gateway SG1004 does not.

Rack mount installation allows an HPE Networking Instant On Secure Gateway to be mounted within a standard two-post 19-inch Telco rack.

CAUTION

- Each gateway should have its own mounting equipment. Do not place other networking equipment directly on top of a mounted gateway.
- Mount devices installed in a rack or cabinet as low as possible. Install the heaviest devices at the bottom and progressively lighter devices toward the top.
- To prevent the rack or cabinet from becoming unstable, tilting or falling over, ensure that the rack is adequately secured.
- The rack with the installed gateway unit cannot be transported. You need to detach the gateway unit before transporting the rack.

Installation Steps

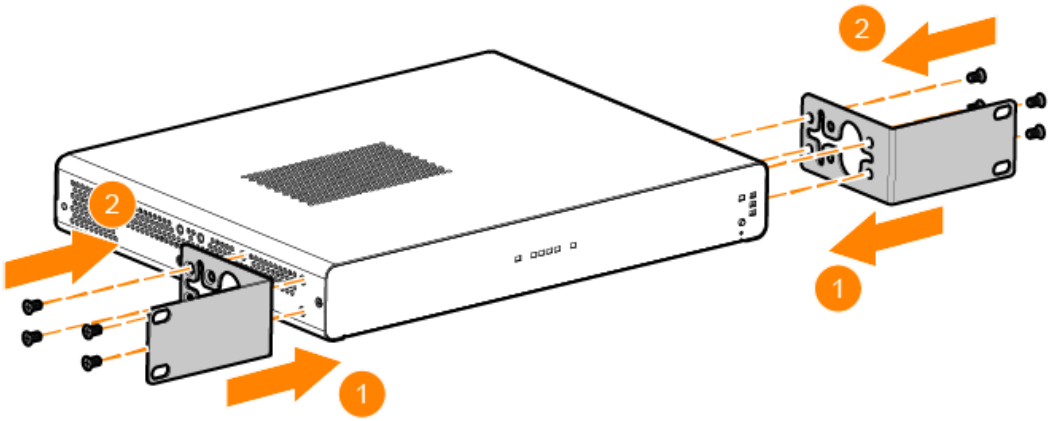
NOTE

Some racks require screws that differ from those included with your Gateway. Ensure you have the correct screws before you begin installation.

To install an HPE Networking Instant On Secure Gateway into a two-point 19-inch (48.26 cm) Telco rack:

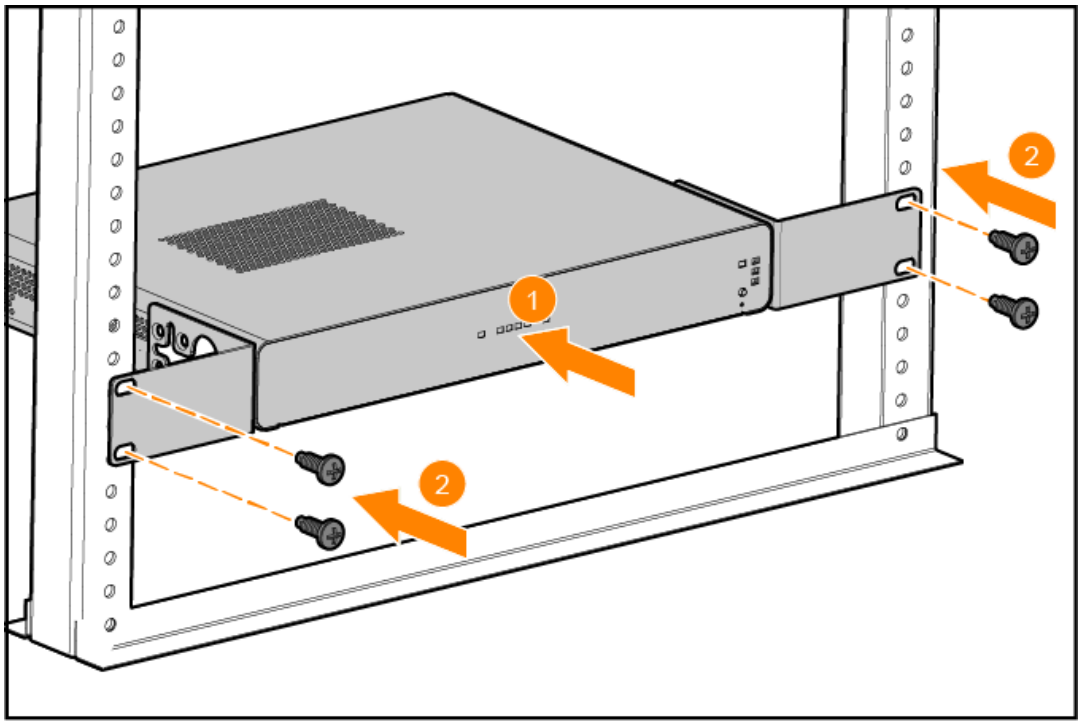
1. Attach included mounting brackets to the left and right sides of your Gateway using the 8 included (M4, P0.7, 8mm) screws. Ensure mounting brackets are installed in the proper orientation (see Figure 17).

Figure 17 *Attaching Rack Mounting Brackets to Gateway SG2505P*



2. Mount the Gateway within your rack using the 4 included (#12, 24T, 16mm) screws (see Figure 18).

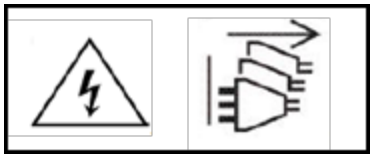
Figure 18 *Installing Gateway SG2505P in a Standard two-point 19-inch (48.26 cm) Telco rack*



Power Cords

HPE Networking includes the power cord intended for use with your gateway.

CAUTION

- Remove power cord before physically installing or uninstalling the gateway.
- Only HPE Networking approved power cords can be used with HPE Networking devices. In addition, ensure your power cord displays the mark of the safety agency that regulates power cords in your country/region. The mark is your assurance that the power cord can be used safely with your gateway.
- Do not use damaged power cords with your gateway. Use of a damaged power cord will void your gateway's warranty and can cause electrical problems potentially leading to injury or death to personnel and damage to the gateway or other property. If you cannot verify that you have a power cord approved for use with your gateway, contact your authorized HPE Networking dealer or sales representative for assistance.
- Warning: If PoE power supply is Class I equipment, this equipment must be grounded. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.
- 

  Shock hazard. To completely remove power from the gateway, disconnect all power cords.

Connecting the Power Cord or AC/DC Adapter

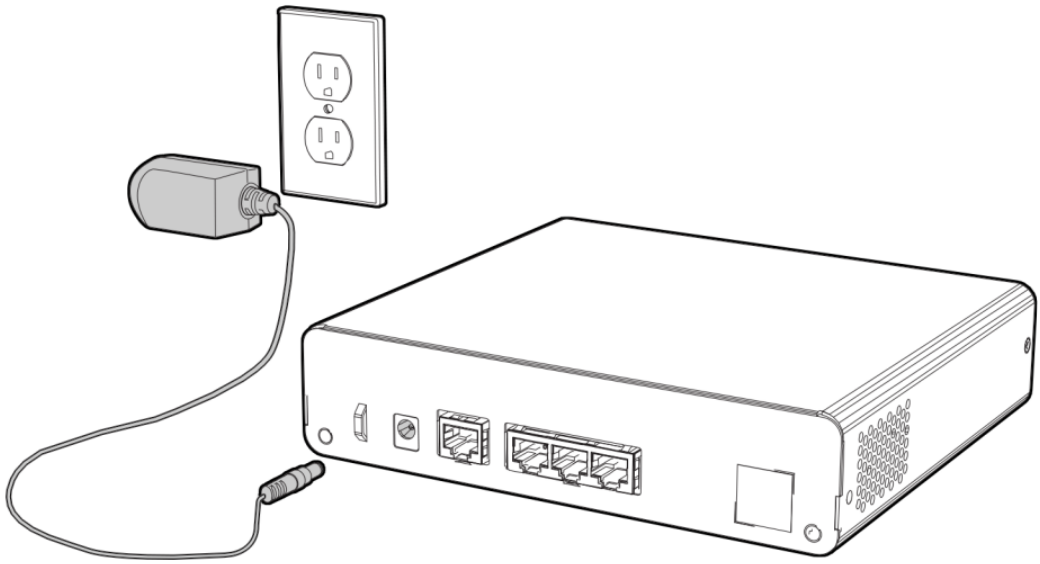
- Gateway SG2505P supports the use of an AC Power Cord. Gateway SG1004 does not.
- HPE Networking Instant On Secure Gateways do not have a power switch, they are powered on when the power cord is connected to the gateway and a power source.

- For safety, locate the gateway near the power outlet it will use.
- HPE Networking Instant On Secure Gateways automatically adjust to any voltage between 100-127 or 200-240 volts and either 50 or 60 Hz. There are no voltage range settings.

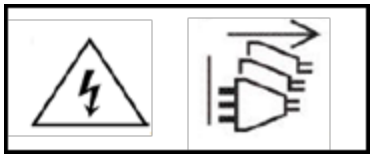
Gateway SG1004

1. Connect the AC/DC adapter supplied with your gateway to the power port on your gateway.
2. Plug the AC/DC adapter into an electrical outlet.

Figure 19 *Connecting power to SG1004*



CAUTION

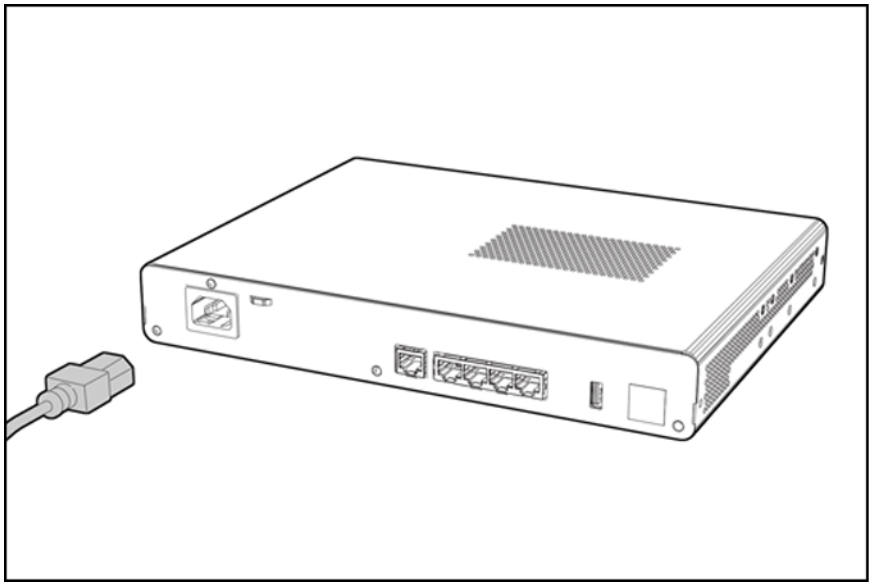


Shock hazard. To completely remove power from the gateway, disconnect all power cords.

Gateway SG2505P

1. Connect the power cord supplied with your gateway to the power port on your gateway.
2. Plug the power cord into a properly grounded electrical outlet.

Figure 20 *Connecting power to SG2505P*



Specifications

NOTE

For important safety, environmental, and regulatory information, see Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts.

Physical Specifications

HPE Networking Instant On Secure Gateway 4p Gigabit SG1004

- Device Dimensions (L x W x H): 6.46" x 7.48" x 1.73" (164.2mm x 190mm x 43.95mm)
- Device Weight: 2.31 lbs (1.05 kg)

HPE Networking Instant On Secure Gateway 5p Smart Rate 2.5G Class 4 PoE 64W SG2505P

- Device Dimensions (L x W x H): 9.22" x 12.18" x 1.73" (234.2mm x 309.6mm x 43.95mm)
- Device Weight: 4.5 lbs (2.04 kg)

Electrical Specifications

NOTE

- SG2505P has an internal power supply.
- SG1004 uses an external power adapter.

Table 6: HPE Networking Instant On Secure Gateway 5p Smart Rate 2.5G Class4 PoE 64W SG2505P

Maximum Current	AC Voltage	Frequency Range
0.6A / 1.1A	100 - 240VAC	50 - 60 Hz

Table 7: HPE Networking Instant On Secure Gateway 4p Gigabit SG1004

Maximum AC Input Current	DC Output Voltage	Maximum DC Output Current	Rated AC Input Voltage	AC Power Frequency Range
0.3A	12VDC	1A	100 - 240VAC	50 - 60 Hz

Table 8: PoE Output Information

Gateway Model	PoE Output Rating
HPE Networking Instant On Secure Gateway 5p Smart Rate 2.5G Class4 PoE 64W SG2505P	PoE (55Vdc, 0.56A max.), 30W max. per port, 4 ports. Total max. output power 64W.

Environmental Specifications

- Operating
  - Temperature Range: 32° F to 104° F (0° C to 40° C)
  - Humidity Range: 15% to 95% (RH), non-condensing
- Storage and Transportation
  - Temperature Range: –40° F to 158° F (–40° C to 70° C)
  - Humidity Range: 15% to 95% (RH), non-condensing
- Altitude
  - 0 to 10,000 ft (3 km)

For additional specifications on this product, please refer to the data sheet. The data sheet can be found at https://instant-on.hpe.com/resources.

Regulatory Model Name

Regulatory model names for HPE Networking Instant On Secure Gateways:

- **SG1004:** RSVLC-2304
- **SG2505P:** RSVLC-2305

Safety and Regulatory Compliance

HPE Networking Instant On Secure Gateways must be installed by a professional installer. The professional installer is responsible for ensuring that grounding is available and it meets applicable local and national electrical codes.

For important safety, environmental, and regulatory information, see Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts

FCC

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by Hewlett Packard Enterprise, can void the user's authority to operate this equipment.

This product is compliant with Class B of EN 55032. This product should not cause interference if used in residential areas. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful

interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Table 9: Safety and Regulatory Information for all HPE Networking Instant On Secure Gateways

Safety	UL/CUL 62368-1, 3rd, Ed., EN/IEC 62368-1, 2nd, & 3rd Ed.
EMC	BS/EN 55032: 2015 Class B, FCC CFR 47 Part 15 Class B, AS/NZS CISPR 32: 2015 Class B, ICES 003 Issue 7 Class B, KS C 9832: 2023 Class B, BS/EN 61000-3-2: 2019, VCCI-32 Class B & CNS-15936: 2016 Class B, BS/EN 61000-3-3: 2013, BS/EN 55035: 2017, CISPR 35: 2016, KS C 9835: 2019
RoHS	EN 63000:2018

Canada

Innovation, Science and Economic Development Canada

This Class B digital apparatus complies with Canadian ICES-003.

Innovation, Sciences et Développement économique Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

European Union and United Kingdom

The product complies with the requirements of Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits, Directive 2014/30/EU relating to electromagnetic compatibility, Directive 2011/65/EU as amended on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and carries the CE marking accordingly. The Declaration of Conformity is available at http://www.hpe.com/eu/certificates. Select the document that corresponds to your device's model number as it is indicated on the product label.

Use of controls or adjustments of performance or procedures other than those specified in this manual may result in hazardous radiation exposure.

Although this gateway has been tested up to 1 kV per CE immunity requirements, it requires surge protection to be provided as part of the building installation to protect against unidirectional surges resulting from electrical switching and lightning strikes.
For protection against these surges in an outdoor installation, any exposed wiring must be shielded, and the shield for the wiring must be grounded at both ends.

CE

HPE,Postfach 0001,
1122 Wien, Austria

UK CA

Product Compliance
Hewlett-Packard Limited
210 Wharfedale Road
Winnersh Triangle
Berkshire, RG41 5TP
United Kingdom

Brazil

Este equipamento deve ser conectado obrigatoriamente em tomada de rede de energia elétrica que possua aterramento (três pinos), conforme a Norma NBR ABNT 5410, visando a segurança dos usuários contra choques elétricos.)

Para mais informações, consulte o site da Anatel: https://www.gov.br/anatel/pt-br

India

This product conforms to the relevant Essential Requirements of TEC, Department of Telecommunications, Ministry of Communications, Govt of India, New Delhi-110001.

Japan VCCI

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。 VCCI ー B

Korea

이 기기는 가정용(B급) 전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며, 모 든 지역에서 사용할 수 있습니다.

Нормативные требования Евразийского Экономического Союза

EAC

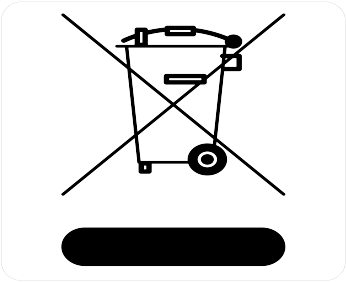
ТОО «Хьюлетт-Паккард (К)», Республика Казахстан, 050040, г. Алматы, Бостандыкский район, проспект Аль-Фараби, 77/7, Телефон/факс: + 7 727 355 35 50

ЖШС «Хьюлетт-Паккард (К)», Қазақстан Республикасы, 050040, Алматы к., Бостандык ауданы, Әл-Фараби даңғылы, 77/7, Телефон/факс: +7 727 355 35 50

Proper Disposal of HPE Networking Equipment

HPE Networking equipment complies with countries' national laws for proper disposal and electronic waste management.

Waste of Electrical and Electronic Equipment

	HPE Networking products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2012/19/EU on Waste of Electrical and Electronic Equipment (WEEE).

European Union RoHS

RoHS	HPE Networking products also comply with the EU Restriction of Hazardous Substances Directive 2011/65/EU (RoHS). EU RoHS restricts the use of specific hazardous materials in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including Solder used in printed circuit assemblies), Cadmium, Mercury, Hexavalent Chromium, and Bromine. Some HPE Networking products are subject to the exemptions listed in RoHS Directive Annex 7 (Lead in solder used in printed circuit assemblies). Products and packaging will be marked with the “RoHS” label shown at the left indicating conformance to this Directive.

India RoHS material content declaration

India RoHS material content declaration This product complies with the “India E-waste (Management) Rules, 2016” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule II of the Rule.

China RoHS

HPE Networking products also comply with China environmental declaration requirements and are labeled with the “EFUP 50” label shown at the left.

产品中有害物质的名称及含量
根据中国《电器电子产品有害物质限制使用管理办法》

部件名称	限用物质及其化学符号					
	铅 (Pb)	汞 (Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电池	O	O	O	O	O	O
传输线和网路线	O	O	O	O	O	O
断路器	X	O	O	O	O	O
冷却 & 加热系统	O	O	O	O	O	O
磁盘控制器	X	O	O	O	O	O
外部机箱	X	O	O	O	O	O
风扇	O	O	O	O	O	O
液晶显示器	X	O	O	O	O	O
硬盘(HDD)	X	O	O	O	O	O
液压 / 气压系统	O	O	O	O	O	O
键盘	O	O	O	O	O	O
介质（CD/DVD/光盘驱动器）	O	O	O	O	O	O
记忆体	O	O	O	O	O	O
鼠标	O	O	O	O	O	O
其他机械组装设备	X	O	O	O	O	O
电源/电源适配器	X	O	O	O	O	O
印刷电路组件 (PCAs)	X	O	O	O	O	O
天线	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制

O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下

X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求

此表中所有名称中含 “X” 的部件均符合欧盟 RoHS 立法

注：环保使用期限的参考标识取决于产品正常工作的温度和湿度等条

除非另有标明，此电子电器产品有害物质限制使用(EPUP)
标签适用于所有慧与公司服务器，网络，存储设备

Taiwan RoHS

台灣限用物質含有情況標示

單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr^{+6})	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
傳輸線和線材	○	○	○	○	○	○
外殼	—	○	○	○	○	○
記憶體	○	○	○	○	○	○
其他機械組裝設備	—	○	○	○	○	○
印刷電路零組件 (PCAs)	—	○	○	○	○	○
斷路器 (選配)	—	○	○	○	○	○
冷卻及加熱系統(選配)	○	○	○	○	○	○
風扇(選配)	○	○	○	○	○	○
存取裝置(HDD) (選配)	—	○	○	○	○	○
讀寫元件（CD/DVD/ 磁碟機）(選配)	—	○	○	○	○	○
變壓器/電源供應器(選配)	—	○	○	○	○	○
備考 1.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。 備考 2.〝－〞係指該項限用物質為排除項目。						

選配單元使用於特定產品型號，詳細規格請參照產品說明書。

Turkey RoHS

Turkey RoHS material content declaration Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur.