HPE Aruba Networking BR-150 5G Cellular Bridge

Installation Guide

Hewlett Packard Enterprise

Legal Disclaimer

The resource assets in this document may include abbreviated and/or legacy terminology for HPE Aruba Networking products. See www.arubanetworks.com for current and complete HPE Aruba Networking product lines and names.

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Chapter 1
About This Guide

This document describes the hardware features of the HPE Aruba Networking BR-150 5G Cellular Bridge. It provides a detailed overview of the physical and performance characteristics of the BR-150 5G Cellular Bridge and explains how to install the BR-150 5G Cellular Bridge.

Guide Overview

- Hardware Overview provides a detailed hardware overview of the HPE Aruba Networking BR-150 5G Cellular Bridge.
- Installation describes how to install the HPE Aruba Networking BR-150 5G Cellular Bridge .
- Specifications, Safety and Compliance lists the HPE Aruba Networking BR-150 5G Cellular Bridge's specifications, safety and regulatory compliance information.

Contacting Support

Table 1: *Contact Information*

Main Site	arubanetworks.com
Support Sites	https://networkingsupport.hpe.com/
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (US and Canada Toll-Free Number)
International Telephone	arubanetworks.com/support-services/contact-support/
Software Licensing Site	https://licensemanagement.hpe.com
End-of-life Information	https://networkingsupport.hpe.com/notifications
Security Incident Response Team	Site: https://support.hpe.com/connect/s/securitybulletinlibrary Email: aruba-sirt@hpe.com

HPE Aruba Networking BR-150 5G Cellular Bridge is a cloud-managed 5G cellular bridge with dual multi-gigabit Ethernet ports (2.5GbE) that provides wired WAN Ethernet connectivity, enabling high-speed network connectivity for business critical operations.

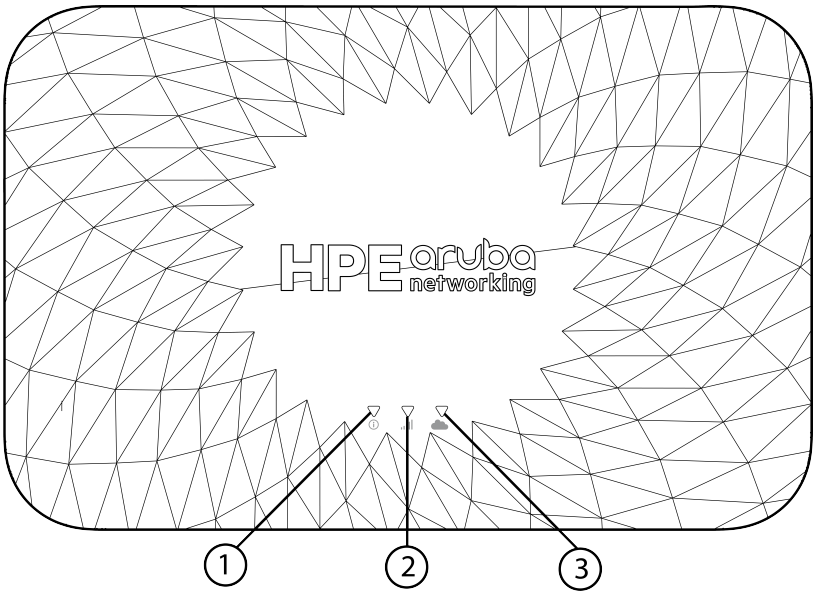
Package Contents

Inform your supplier 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.

Item	Quantity
HPE Aruba Networking BR-150 5G Cellular Bridge	1
Mount Bracket (includes 2 mount bracket screws M4 X 0.7mm)	1
SIM Tray Ejector Pin	1

Hardware Overview

Figure 1 *Front View*



1	System Status LED
2	Cellular Status LED
3	Central Connection Status LED

The status LEDs can be enabled or turned off by the system management software.

System Status LED

Table 2: *System Status LED*

Color/State	Meaning
No lights	The BR-150 5G Cellular Bridge has no power
Red- Solid	The BR-150 5G Cellular Bridge has a system error and requires immediate action
Green- Solid	The BR-150 5G Cellular Bridge is powered on
Amber- Solid	The BR-150 5G Cellular Bridge is booting up
Amber - Flashing	The BR-150 5G Cellular Bridge has a boot up problem

Flashing: one second on, one second off, 2-seconds cycle.

Cellular Status LED

Table 3: *Cellular Status LED*

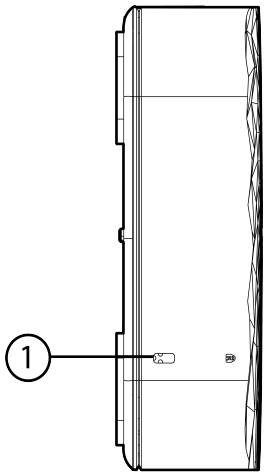
Color/State	Meaning
No lights	The BR-150 5G Cellular Bridge is not connected to any cellular network.
Green- Solid	The BR-150 5G Cellular Bridge is connected to a cellular network.
Amber- Solid	The BR-150 5G Cellular Bridge is connecting to a cellular network.
Amber- Flashing	The BR-150 5G Cellular Bridge has problem connecting to a cellular network.

Central Connection Status LED

Table 4: *Central Connection Status LED*

Color/State	Meaning
No lights	The BR-150 5G Cellular Bridge is not connected to Central.
Green- Solid	The BR-150 5G Cellular Bridge is connected to Central.
Amber- Solid	The BR-150 5G Cellular Bridge is trying to connect to Central or there is a problem connecting to Central.
Amber- Flashing	The BR-150 5G Cellular Bridge has a problem connecting to Central.

Figure 2 *Side View*



1	Kensington Security Slot

Figure 3 *Rear View*

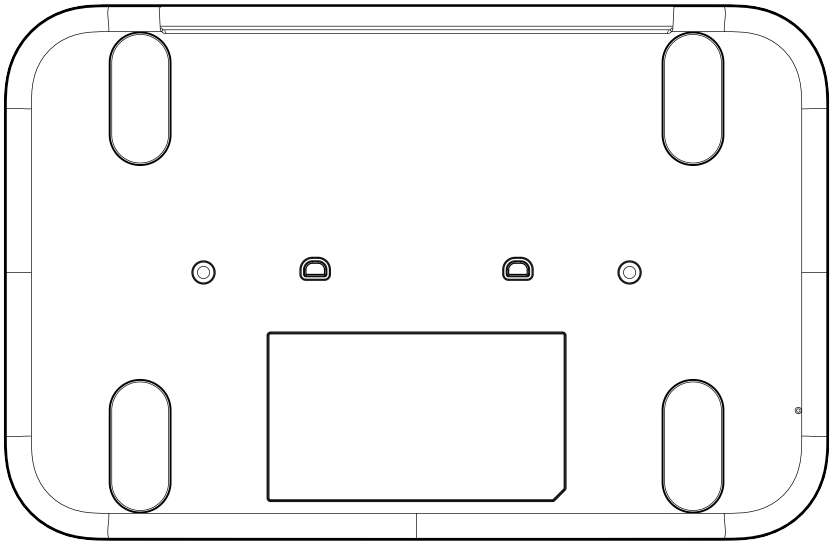
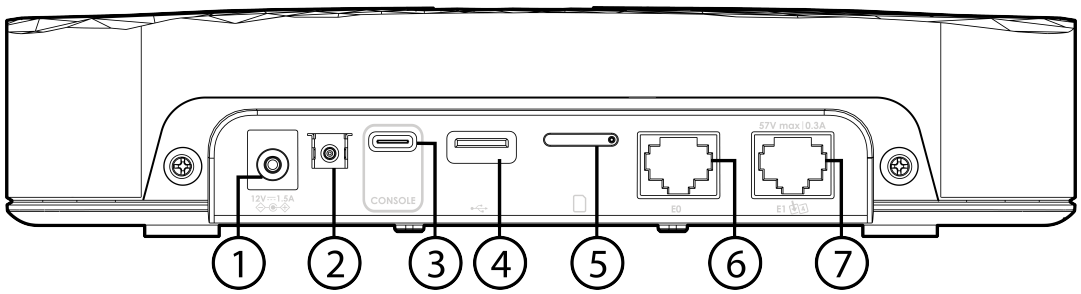


Figure 4 *Bottom View*



1	DC Power Slot
2	Reset Button
3	USB-C console
4	USB-A 3.0
5	Nano SIM Tray
6	E0 Ethernet Port
7	E1 Ethernet Port (PoE)

Ethernet Ports

The BR-150 5G Cellular Bridge is equipped with two Ethernet ports E0 and E1. Both the E0 and E1 ports are 100/1000/2500 Base-T, auto-sensing MDI/MDX, which supports uplink connectivity when linked by an Ethernet cable.

Power Sources

BR-150 5G Cellular Bridge can be powered either by a 12VDC Power adapter or PoE Source on E1 Ethernet port. BR-150 5G Cellular Bridge supports a 12V/48W AC/DC power adapter. The power adapter is not included with the package, it is sold separately. To purchase the power adapter separately, contact your HPE Aruba Networking sales representative for details and assistance.

Part Number	Description
R3K00A HPE (AP-AC2-12B)	Power specification—12V/48W AC/DC power adapter Power adapter dimension ■ 5.5mm outer diameter ■ 2.1mm inner diameter ■ 9.5mm length

PoE

Only E1 port supports PoE. When both PoE and DC power sources are available, the DC power source has priority over any PoE.

Table 5: *Power Sources and Features*

Power Port	Power Source	Spec	Features Enabled
DC	AC Power Adapter	12V 18W	No restrictions, all features enabled
E1	PoE	Class 4	No restrictions, all features enabled
		Class 3	Supported with restrictions

Reset Button

The reset button can be used to reset the BR-150 5G Cellular Bridge to factory default settings. There are two ways to reset the BR-150 5G Cellular Bridge to factory default settings:

- To reset the BR-150 5G Cellular Bridge during normal operation, press and hold down the reset button using a small, narrow object such as a paper clip for more than 10 seconds during normal operation.
- To reset the BR-150 5G Cellular Bridge while powering up, follow these steps:
  1. Press and hold down the reset button, using a small and narrow object such as a paper clip, while the BR-150 5G Cellular Bridge is not powered on (either through DC power or PoE).
  2. Connect the power supply (DC or PoE) to the BR-150 5G Cellular Bridge while the reset button is being held down.
  3. Release the reset button on the BR-150 5G Cellular Bridge after 15 seconds.

Kensington Lock Slot

The BR-150 5G Cellular Bridge is equipped with a Kensington security slot for additional security.

SIM Tray

The BR-150 5G Cellular Bridge is equipped with a single nano-SIM tray.

Chapter 3
Installation

CAUTION

All HPE Aruba Networking devices should be professionally installed by a professional installer. The installer is responsible for ensuring that grounding is available and meets applicable national and electrical codes. Failure to properly install this product may result in physical injury and/or damage to property.

CAUTION

Tous les appareils HPE Aruba Networking doivent impérativement être installés par un professionnel agréé. Ce dernier doit s'assurer que l'appareil est mis à la terre et que le circuit de mise à la terre est conforme aux codes électriques nationaux en vigueur. Le fait de ne pas installer correctement ce produit peut entraîner des blessures corporelles et / ou des dommages matériels.

CAUTION

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Before You Begin

Refer to the sections below before beginning the installation process.

Pre-Installation Checklist

Before installing the BR-150 5G Cellular Bridge, ensure that you have the following:

- One or two Cat5e or better UTP cables with network access.
- Power Source: Either a compatible power adapter or compatible PoE source.
- (Optional) A mount kit compatible with the BR-150 5G Cellular Bridge and mount surface.
- Insert the SIM card before powering on the BR-150 5G Cellular Bridge.

NOTE

If the SIM card is inserted when the BR-150 5G Cellular Bridge is powered on, then you must restart the device.

Refer to the HPE Aruba Networking BR-150 5G Cellular Bridge data sheet for compatible items, quantities needed, etc.

Precautions

This section includes information about how to install the BR-150 5G Cellular Bridge and its accessories safely and avoid damage to BR-150 5G Cellular Bridge components.

- Never insert foreign objects into the unit, 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 BR-150 5G Cellular Bridge 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. This also includes 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 BR-150 5G Cellular Bridge unit, 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.
- Perform installation or removal of the unit 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 BR-150 5G Cellular Bridge.

Selecting a Location

The HPE Aruba Networking BR-150 5G Cellular Bridge , like other network and computing devices, requires the following “electronic- friendly” environment.

- Reliable power
  Verify that your electrical outlet is compatible with the BR-150 5G Cellular Bridge power supply.
- Cool, non-condensing ventilation
  For proper operation, the BR-150 5G Cellular Bridge requires an environment with an ambient air temperature between 0 and 50 ºC (32 and 122 ºF). Humidity must be kept at non-condensing levels between 10% and 90%.
  Where a large number of electrical devices are working in the same area, additional air conditioning or air circulation equipment may be required.
- Ample space
  For proper air circulation, leave at least 10 cm (4 inches) clearance all around the unit.
  Leave additional space in the front and rear side of the unit to access power cords, network cables, and indicator LEDs.
- Limited electromagnetic interference
  For best operation, keep the BR-150 5G Cellular Bridge 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.
- Avoid placing this BR-150 5G Cellular Bridge on any other device because the heat dissipated from the other device can over heat the BR-150 5G Cellular Bridge.

SIM Tray Installation

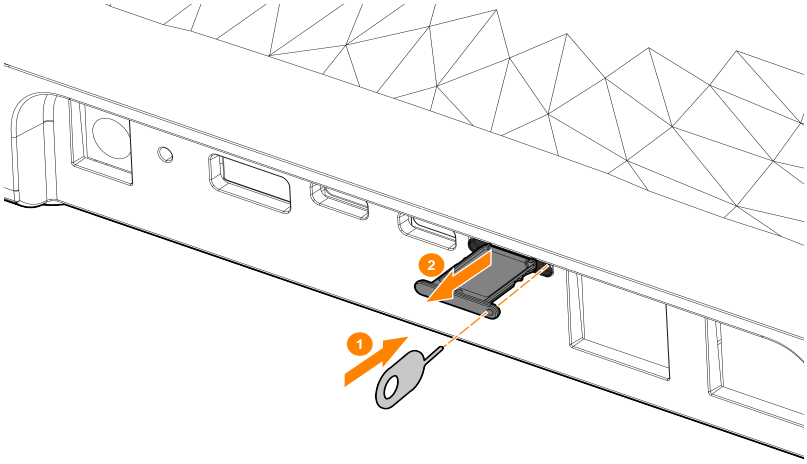
The BR-150 5G Cellular Bridge is equipped with a single nano-SIM tray.

HPE Aruba Networking also provides the single nano-SIM tray kit as a spare kit for the BR-150 5G Cellular Bridge. The spare SIM tray kit comes with an ejector pin that is used to remove the SIM tray from the device for installing the SIM card into the tray slot.

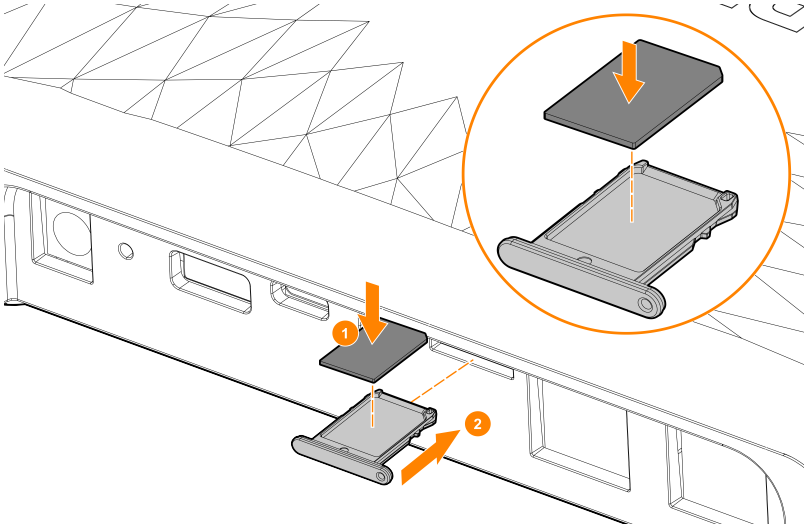
This section specifically calls out the installation instructions for installing the SIM tray on a BR-150 5G Cellular Bridge.

To install a SIM card into the SIM tray, perform the following steps:

1. Insert the SIM ejector needle (provided with package contents) into the small hole on the SIM Tray. The card tray will pop open.



2. Pull out the SIM card tray and insert a SIM card, gold contact facing downwards, into the SIM tray.
3. Push the SIM tray back into the slot.



NOTE

In case the SIM tray gets damaged or disfunctional, you can order a spare SIM tray available for use with the BR-150 5G Cellular Bridge. The spare SIM tray is sold separately. Contact your HPE Aruba Networking sales representative for details and assistance.

Part Number	Description
S4P36A	HPE ANW BR-150 SIM Spare Tray Kit

IP55 Kit Installation

The IP55 kit is not included with the package. To purchase the IP55 kit, contact your HPE Aruba Networking sales representative for details and assistance.

Part Number	Description
S3M48A	HPE ANW BR-150 IP55 Spare Kit

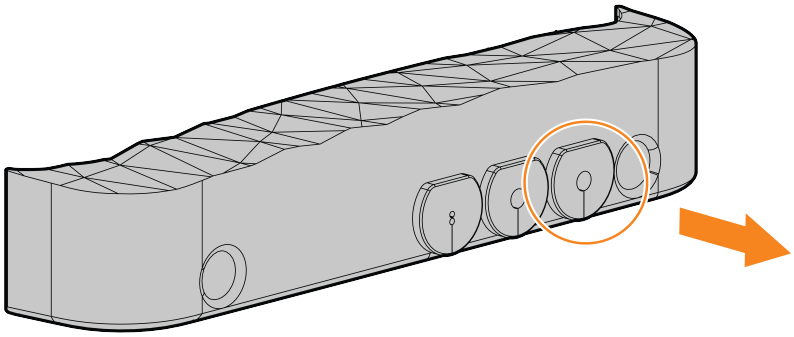
To connect a cable and attaching the IP55 kit to the BR-150 5G Cellular Bridge unit, follow these steps:

NOTE

All illustrations depict the RJ45 cable installation as reference. Follow the same installation procedure to connect other cable to the BR-150 5G Cellular Bridge.

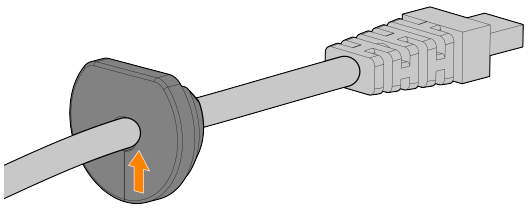
1. Remove the IO cap attached on the IP55 kit that is nearest to the port in which you are installing the cable.

Figure 5 *IO cap removal*

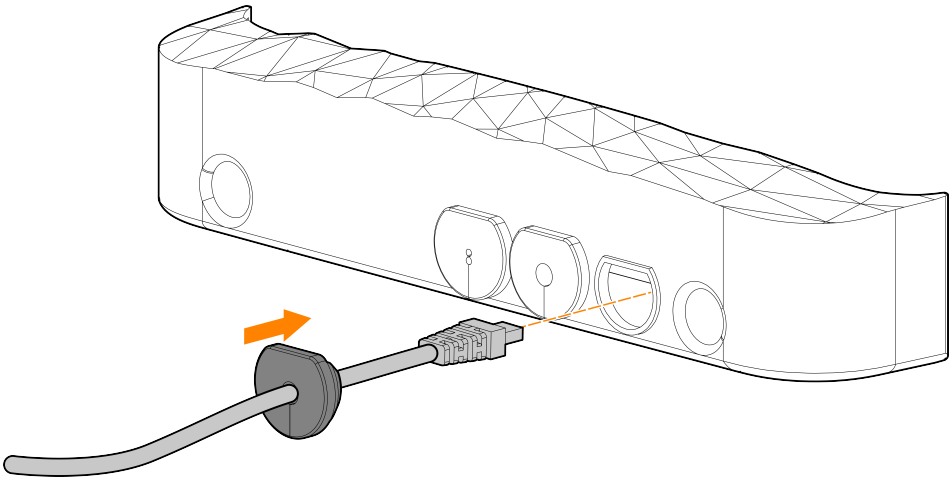


2. Insert the cable through the hole in the IO cap. The IO cap has a cut to provide the required flexibility to insert the cable through the IO cap.

Figure 6 *Cable insert through the IO cap*

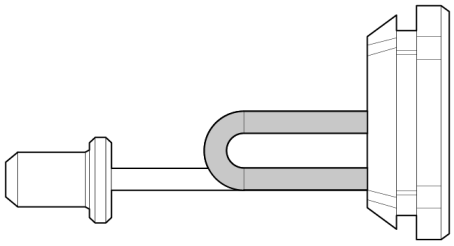


3. Insert the cable through the slit in the IP55 kit.

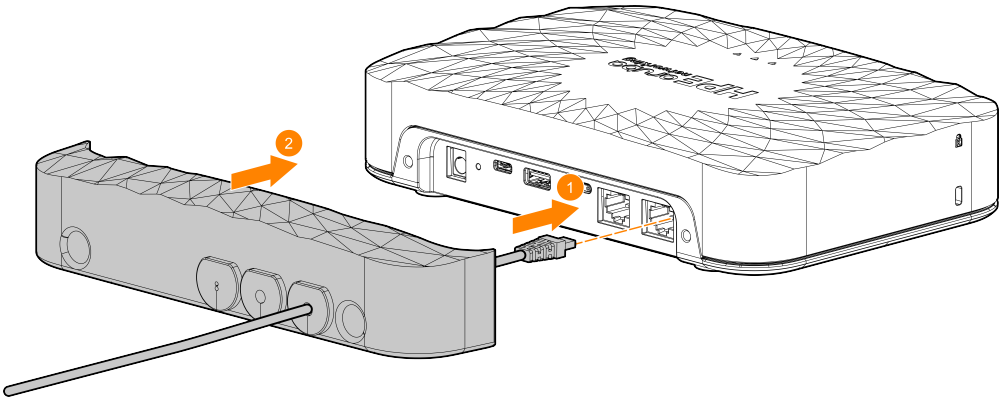


4. Align the IO cap with the hole in the IP55 kit and insert the IO cap into the IP55 kit.

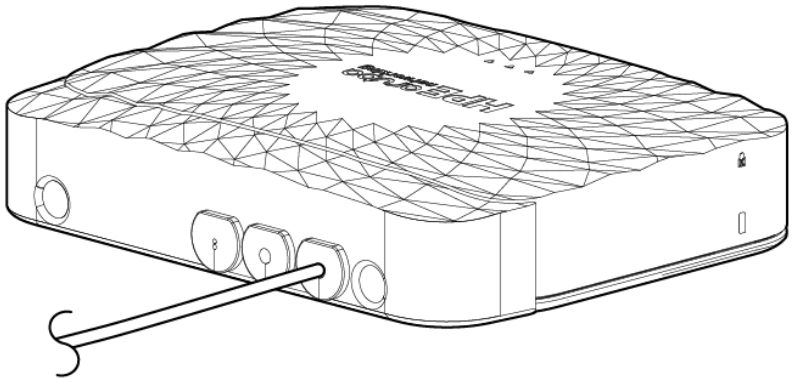
   If any opening on the IP55 kit is not used to connect a cable, make sure to cover the hole using the IO cap.



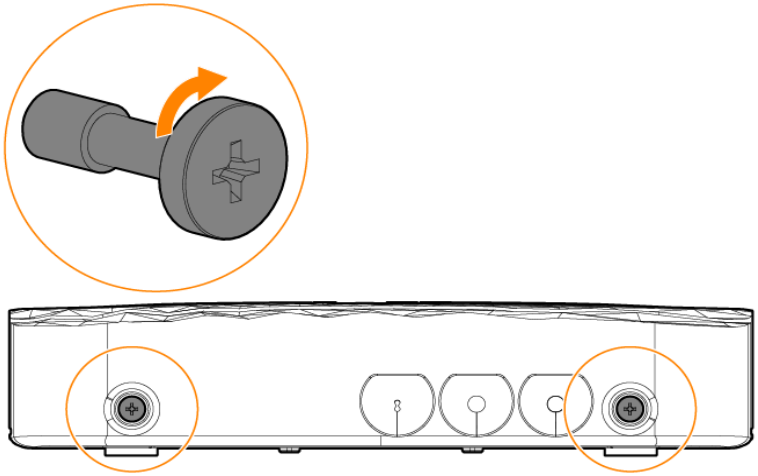
5. Plug in the RJ45 into the corresponding port.



6. Align the IP55 kit with the BR-150 5G Cellular Bridge unit.



7. Secure the IP55 kit to the BR-150 5G Cellular Bridge unit by tightening the two screws.



Mounting the HPE Aruba Networking BR-150 5G Cellular Bridge

The BR-150 5G Cellular Bridge can be mounted on a wall or ceiling by using a compatible mount kit. HPE Aruba Networking provides several mount kits to use with the BR-150 5G Cellular Bridge. These mount kits are available as accessories and must be ordered separately.

Before you mount the BR-150 5G Cellular Bridge, you must install the mount bracket using the M4 X 0.7mm mount bracket screws. The mounting bracket and mount bracket screws are included with the package.

Table 6: *Mount Kits for BR-150 5G Cellular Bridge*

Part Number	Description	Installation Guide
R3J15A	AP-MNT-A Mount Kit to mount the device to ceiling rails	AP-MNT-A/B/C Mount Kit Installation Guide
R3J16A	AP-MNT-B Mount Kit to mount the device to ceiling rails	
R3J17A	AP-MNT-C Mount Kit to mount the device to ceiling rails	
R3J18A	AP-MNT-D Mount Kit to mount the device to wall and ceiling	AP-MNT-D Mount Kit Installation Guide
R3J19A	AP-MNT-E Mount Kit to mount the device to wall and ceiling	AP-MNT-E Mount Kit Installation Guide

CAUTION

All HPE Aruba Networking devices should be professionally installed by a professional installer. The installer is responsible for ensuring that grounding is available and meets applicable national and electrical codes. Failure to properly install this product may result in physical injury and/or damage to property.

CAUTION

Tous les points d'accèsHPE Aruba Networking doivent impérativement être installés par un professionnel agréé. Ce dernier doit s'assurer que l'appareil est mis à la terre et que le circuit de mise à la terre est conforme aux codes électriques nationaux en vigueur. Le fait de ne pas installer correctement ce produit peut entraîner des blessures corporelles et / ou des dommages matériels.

CAUTION

The BR-150 5G Cellular Bridge is intended for installation in a RESTRICTED ACCESS LOCATION attached to a wall or ceiling. Installers should disconnect the power before working with or near the BR-150 5G Cellular Bridge.

Verifying Post-Installation Connectivity

The integrated LEDs on the BR-150 5G Cellular Bridge can be used to verify that the BR-150 5G Cellular Bridge is receiving power and initializing successfully.

Chapter 4

Specifications, Safety and Compliance

This chapter provides an overview of the HPE Aruba Networking BR-150 5G Cellular Bridge specifications, safety and compliance information.

Specifications

Electrical

- Ethernet
  - E0 and E1 port: Supports 100Base-T/1000Base-T/2500GBase-T
- Power
  - E1 Power over Ethernet (PoE) port: 802.3at compliant source or 12VDC (18W or greater) AC/DC power adapter.

Environmental

- Operating
  - Temperature: 0°C to +50°C (+32°F to +122°F)
  - Relative Humidity: 5% to 93%
- Storage
  - Temperature: -25°C to +55°C (-13°F to +131°F)
  - Relative Humidity: 10% to 93%
- Transportation
  - Temperature: -40°C to +70°C (-40°F to +158°F)
  - Relative humidity: up to 95%

Medical

1. Equipment not suitable for use in the presence of flammable mixtures.
2. Connect to only IEC 62368-1 or IEC 60601-1 certified products and power sources. The end user is responsible for the resulting medical system complies with the requirements of IEC 60601-1.
3. Wipe with a dry cloth, no additional maintenance required.
4. No serviceable parts, the unit must be sent back to the manufacturer for repair.
5. No modifications are allowed without approval from HPE Aruba Networking.

- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the BR-150 5G Cellular Bridge. Otherwise, degradation of the performance of this equipment could result.

CAUTION

- This device is intended for indoor use in professional healthcare facilities.
- This device has no IEC/EN60601-1-2 essential performance.
- Compliance is based on the use of HPE Aruba Networking approved accessories. Refer to the HPE Aruba Networking BR-150 5G Cellular Bridge data sheet.

NOTE

Regulatory Model Name

For the purpose of regulatory compliance certifications and identification, this product has been assigned a unique regulatory model number (RMN). The regulatory model number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to this regulatory model number. The regulatory model number RMN is not the marketing name or model number of the product.

The regulatory model name (RMN) for the HPE Aruba Networking BR-150 5G Cellular Bridge is BRG5G0150.

Safety and Regulatory Compliance

CAUTION

The BR-150 5G Cellular Bridge 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.

United States

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

The network administrator(s) is/are responsible for ensuring that this device operates in accordance with local or regional laws of the host domain.

RF Radiation Exposure Statement: This equipment complies with RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 7.87 inches (20 cm) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration de la concernant l'exposition aux rayonnements à fréquence radioélectrique (FR): Cet appareil est conforme aux limites d'exposition aux rayonnements FR établies. Il doit être installé et utilisé à une distance minimale de 20 cm (7,87 pouces) entre le radiateur et votre corps. Cet émetteur ne doit pas être installé ou utilisé à proximité immédiate d'une autre antenne ni d'un autre transmetteur.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Toute modification effectuée sur cet équipement sans l'autorisation expresse de la partie responsable de la conformité est susceptible d'annuler son droit d'utilisation.

Canada

Innovation, Science and Economic Development Canada

This Class B digital apparatus meets all of the requirements of the Canadian Interference-Causing Equipment Regulations.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

Innovation, Sciences et Développement économique Canada

Cet appareil numérique de Classe B répond à toutes les exigences de la réglementation canadienne sur le matériel brouilleur.

Cet appareil contient des émetteurs / récepteurs exemptés de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes: (1) ce périphérique ne doit pas provoquer d'interférences, et (2) ce périphérique doit accepter toute interférence, y compris les interférences susceptibles de provoquer un dysfonctionnement.

European Union and United Kingdom

The Declaration of Conformity made under Radio Equipment Directive 2014/53/EU as well as the United Kingdom's Radio Equipment Regulations 2017/UK is available for viewing below. Select the document that corresponds to your device's model number as it is indicated on the product label.

EU & UK Declaration of Conformity

Compliance is only assured if Hewlett Packard Enterprise approved accessories as listed in the HPE Aruba Networking BR-150 5G Cellular Bridge data sheet are used.

This device is limited for indoor use. Use in trains with metal-coated windows (or similar structures made of materials with comparable attenuation characteristic) and aircraft is permitted.

Wireless Channel Restrictions

The 5G/LTE frequency bands are not harmonized for the following countries: Austria (AT), Belgium (BE), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (GR), Hungary (HU), Iceland (IS), Ireland (IE), Italy (IT), Latvia (LV), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Norway (NO), Poland (PL), Portugal (PT), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SL), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK (NI)).

Band Names	Band number	Max EIRP
UTRA Bands	I, V, VIII	25dBm
E-UTRA Bands	1,3,7,8,20,28,34,38,40,42,43	25dBm
5G NR Bands	n1, n3, n7, n8, n28, n38, n40	25dBm
	n41, n77, n78	28dBm

EU & UK Regulatory Contact:

HPE, Postfach 0001,1122 Wien, Austria

Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

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

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

Taiwan

台灣適用頻段:

LTE: B1,3,7,8,28,38,41

5GNR: n1,3,7,8,28,38,41,78,79

電波功率密度MPE 標準值1 mW/cm2, 送測產品實測值為: 0.552mW/cm2 建議使用時設備天線至少距人體20公分

減少電磁波影響, 請妥適使用

報驗義務人(Applicant):慧與科技股份有限公司

地址(Address):11568 台北市南港區經貿二路66號10樓之1

電話(TEL): (02) 2652-8700

EAC

Нормативные требования Евразийского Экономического Союза

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

EAC

Ukraine

Hereby, HPE Aruba Networking declares that the radio equipment type [The Regulatory Model Number [RMN] for this device can be found in the Regulatory Model Name section of this document] is in compliance with Ukrainian Technical Regulation on Radio Equipment, approved by resolution of the CABINET OF MINISTERS OF UKRAINE dated May 24, 2017, No. 355. The full text of the UA declaration of conformity is available at the following internet address: https://certificates.ext.hpe.com.

Х'ЮЛЕТТ ПАКАРД ЕНТЕРПРАЗ, 6280 АМЕРИКА ЦЕНТР Д-Р, САН-ХОСЕ, КАЛІФОРНІЯ 95002, США.

Proper Disposal of Hewlett Packard Enterprise Equipment

Hewlett Packard Enterprise equipment complies with countries' national laws for proper disposal and electronic waste management.

Waste of Electrical and Electronic Equipment

Hewlett Packard Enterprise 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

Hewlett Packard Enterprise products 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 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

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 Aruba 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

Taiwan RoHS Hazardous Substances table

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	O	O	O	O	O	O
外殼	—	O	O	O	O	O
記憶體	O	O	O	O	O	O
其他機械組裝設備	—	O	O	O	O	O
印刷電路零組件 (PCAs)	—	O	O	O	O	O
斷路器 (選配)	—	O	O	O	O	O
冷卻及加熱系統(選配)	O	O	O	O	O	O
風扇(選配)	O	O	O	O	O	O
存取裝置(HDD) (選配)	—	O	O	O	O	O
讀寫元件（CD/DVD/ 磁碟機）(選配)	—	O	O	O	O	O
變壓器/電源供應器(選配)	—	O	O	O	O	O
備考1. 〝O〞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 material content declaration

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur