



HPE Aruba Networking

670EX Series Hazardous Location Outdoor Access Points

Installation Guide



Hewlett Packard Enterprise

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This document describes the hardware features of the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points. It provides a detailed overview of the physical and performance characteristics of each access point model and explains how to install the access point.

Guide Overview

- [Hardware Overview](#) provides a detailed hardware overview of the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points.
- [Installation](#) describes how to install the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points.
- [Specifications, Safety, and Compliance](#) lists the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points technical specifications, safety, and regulatory compliance information.

Related Documentation

You require the following documents for the complete management of HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points.

- Latest document of the software user guide:
<https://www.arubanetworks.com/techdocs/ArubaDocPortal/content/cons-aos-home.htm>
- CLI bank: <https://www.arubanetworks.com/techdocs/CLI-Bank/Content/Home.htm>

Contacting Support

Table 1: Contact Information

Main Site	arubanetworks.com
Support Site	https://networkingsupport.hpe.com
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephone	arubanetworks.com/support-services/contact-support/
Software Licensing Site	lms.arubanetworks.com
End-of-life Information	arubanetworks.com/support-services/end-of-life/

Security Incident Response Team

Site: arubanetworks.com/support-services/security-bulletins/

Email: aruba-sirt@hpe.com

The HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points support the IEEE 802.11ax (Wi-Fi 6E) WLAN standard, while also supporting IEEE 802.11a/b/g/n/ac wireless services.

Package Contents

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: Package Contents

Item	Quantity
HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Point	1
CMP A2F cable gland	1
Console cable	1
Grounding lug kit (including a grounding lug and an M4 x 8 screw)	1

Tools Required

- Philips screwdriver (#2 for M4 x 6 screw)
- Flat blade screwdriver (for Ethernet port cap)
- 8mm Allen or hex key (for USB console cap)

Access Point Views

Figure 1 AP-675EX Front View

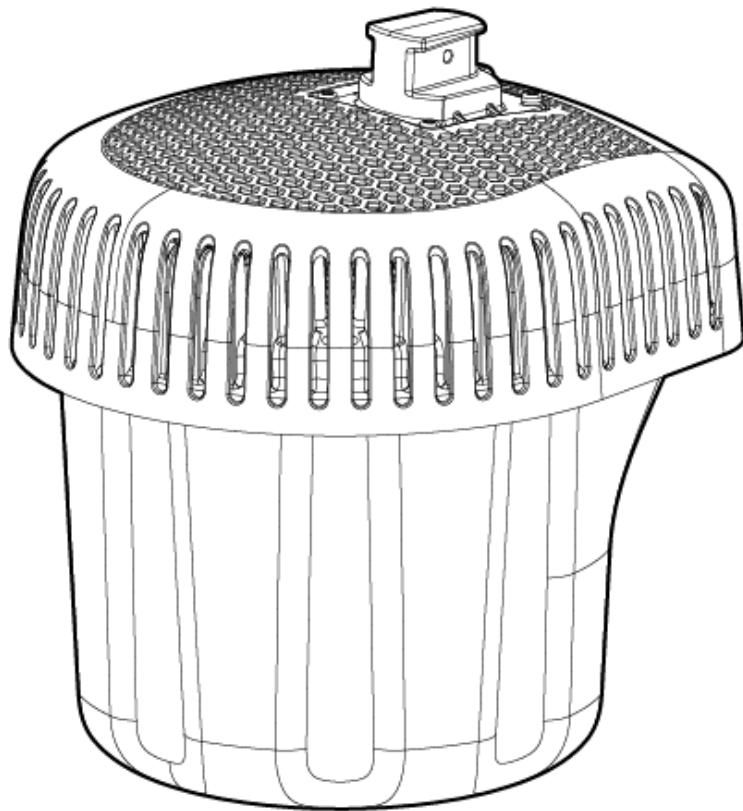
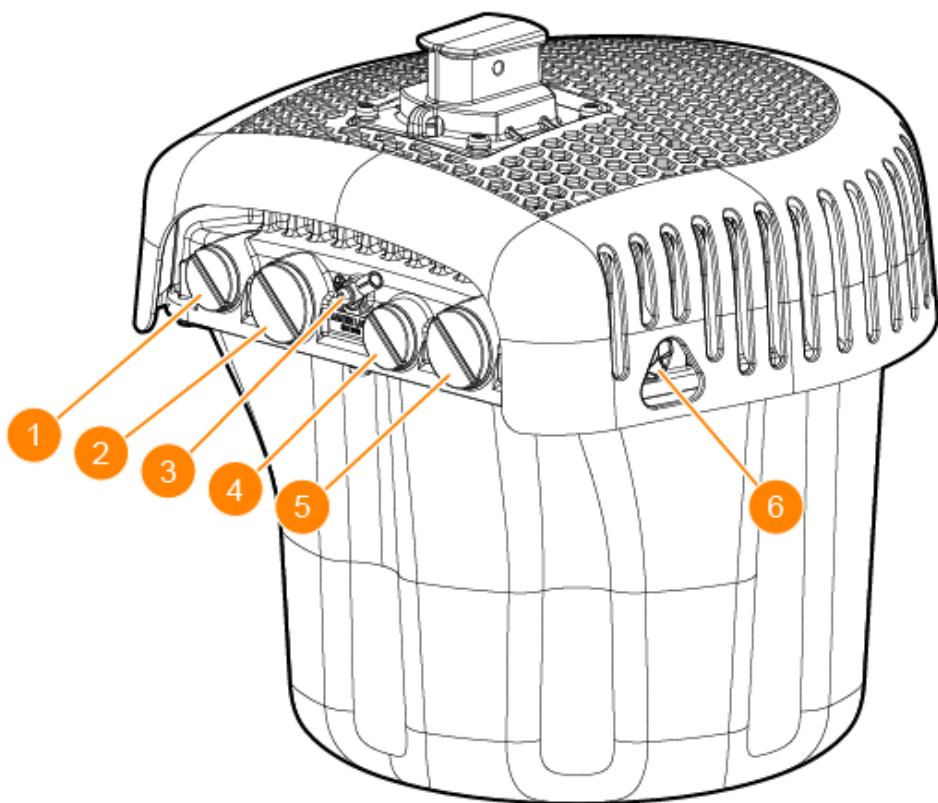


Figure 2 AP-675EX Back View



1	E0 Port (PoE-In)
2	USB-A Interface
3	Grounding Point
4	USB-C Interface
5	E1 Port (SFP)
6	USB-C Console Port, Reset Button, and LED

Figure 3 AP-677EX/AP-679EX Front View

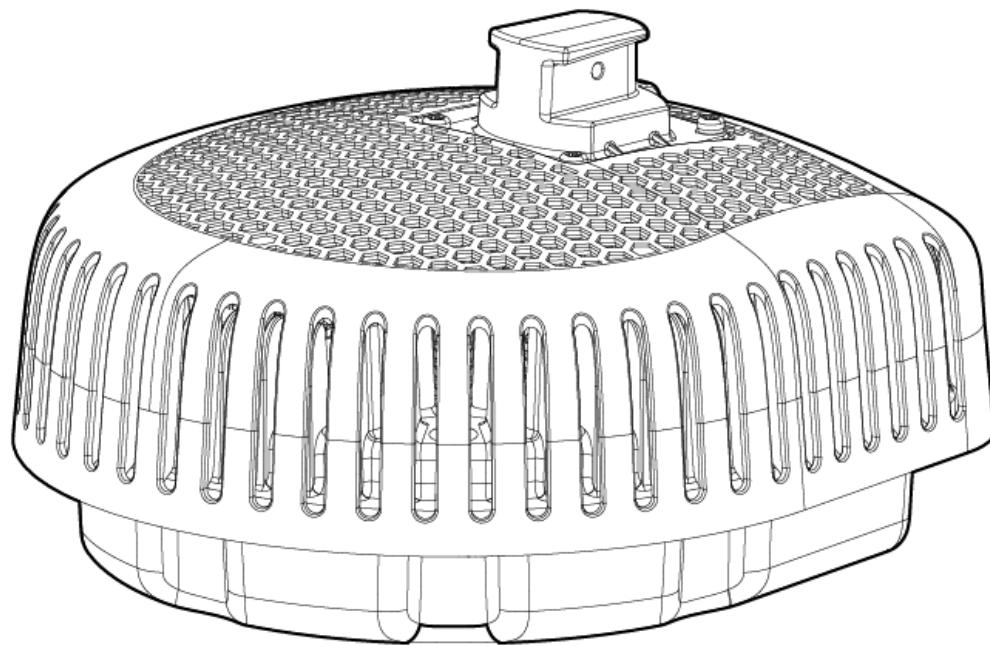
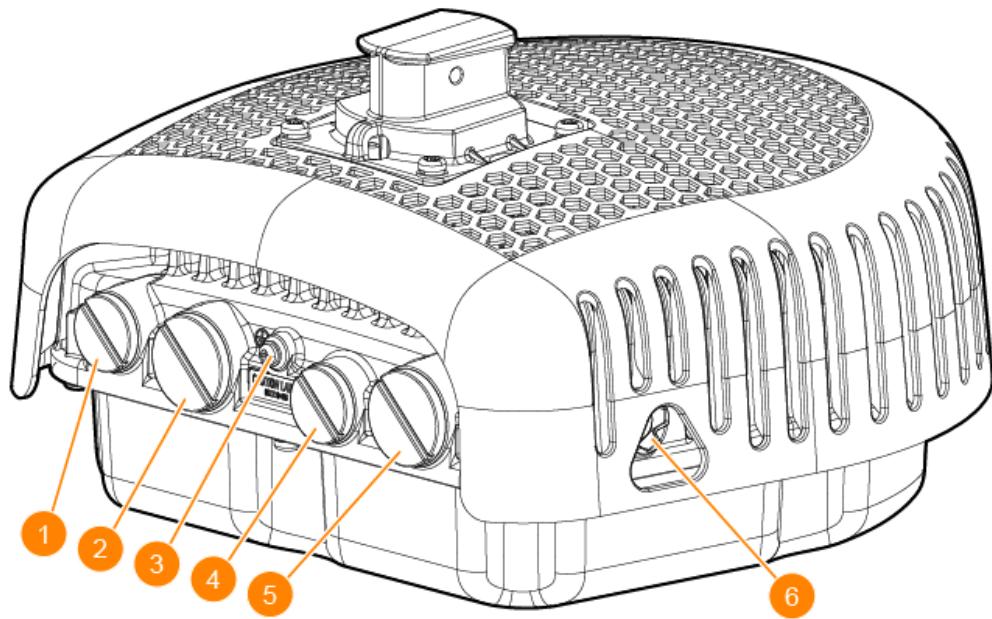


Figure 4 AP-677EX/AP-679EX Back View



1	E0 Port (PoE-In)
2	USB-A Interface
3	Grounding Point

4	USB-C Interface
5	E1 Port (SFP)
6	USB-C Console Port, Reset Button, and LED



The AP-677EX and AP-679EX are the same in physical appearance. They have different antenna patterns. For details on the antenna patterns, refer to the 670EX Series data sheet.

LED

The 670EX Series access point is equipped with one LED that indicates the system status of the access point.

Table 3: LED Meanings during Boot Up

Color /State	Meaning
Off	No power to AP
Red	Initial power-up
Flashing - Green	AP booting, not ready
On - Green	AP ready. GbE (or better) or SFP connected. The LED turns off after 1200 seconds.
Green - Yellow, 6 seconds period	AP ready. 100Mbps connected. The LED turns off after 1200 seconds.
Green - Flashing ¹	AP in deep sleep
Red - Flashing ²	AP in thermal shutdown

1. Mostly off (off 6 seconds, then one blink flash).
2. Equally off/on (off 1 second, then red 1 second).

Table 4: LED Meanings during Operation

Color/State	Meaning
Solid Red	General fault - Immediate attention required
One red blink every 3 seconds	Radio 0 fault (5 GHz)
Two red quick blink off 0.5 seconds apart cycled every 3 seconds	Radio 1 fault (2.4 GHz)
Three red quick blink off 0.5 seconds apart cycled every 3 seconds	Radio 2 fault (6 GHz)

Reset Button

The reset button can be used to reset the AP to default settings, or turn off/on the LED.

- To reset the AP to default settings, hold down the reset button for several seconds while the AP is being powered on, or for more than 10 seconds during normal operation.
- To turn off or on the LED, press the reset button for less than 10 seconds during normal operation .

USB-C Console Port

Use the included USB Type-C console cable to connect the access point to a laptop or a serial terminal for direct management.



You need an 8mm allen or hex key to remove the console port cap.

Ethernet Ports

The access point has two Ethernet ports:

- E0 port: 100/1000/2500Base-T auto-sensing MDI/MDI-X wired network port (RJ45). The E0 port supports PoE-in, allowing the AP to draw power from an 802.3at (Class 4) or 802.3bt (Class 6) PoE power source.
- E1 port: SFP port.

Grounding Point

Always remember to protect the access point by installing the grounding line first before connecting to a network and applying power. Additionally, if removing or taking down the AP, the grounding line should be the last item disconnected.

USB 2.0 Host Interfaces

The 670EX Series access point has two USB host interfaces:

USB-A interface: capable of sourcing up to 1A/5W to an attached device.

USB-C interface: capable of sourcing up to 2A/10W to an attached device.

BLE Radio Default State

When the access point is in factory default state the integrated BLE radio is enabled. This applies to the non-TAA product SKUs only. On the TAA products, the BLE radio is disabled when the unit is in factory default conditions. Once the AP has established a connection with its management platform, the BLE radio state is updated to match what's configured there. This state is maintained if the AP is power-cycled or rebooted.

Console Port Default State

When the access point is in factory default state the console interface (both physical port and BLE) is enabled with default credentials (username is “admin” and password is the serial number of the unit). Once the AP has established a connection with its management platform, the console port state (enabled/disabled) and access credentials are updated to match what’s configured there. State and credentials are maintained if the AP is power-cycled or rebooted.

USB Host Interface Default State

When the access point is in factory default state the USB host interface is powered and enabled, assuming the AP is not in a restricted power mode. On some AP models the USB port may be disabled when a POE source with insufficient power budget is used. Once the AP has established a connection with its management platform, the USB host interface state is updated to match what’s configured there. This state is maintained if the AP is power-cycled or rebooted.

Before You Begin

Refer to the sections below before beginning the installation process.



FCC Statement: Improper termination of access points installed in the United States configured to non-US model controllers will be in violation of the FCC grant of equipment authorization. Any such willful or intentional violation may result in a requirement by the FCC for immediate termination of operation and may be subject to forfeiture (47 CFR 1.80).

Pre-Installation Checklist

Before installing the access point, be sure that you have the following:

- A mount kit compatible with the AP and mount surface
- A STP or shielded Ethernet cable with network access
- Compatible mounting bracket (see HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points Ordering Guide for more)

Some optional items:

- A compatible PoE midspan injector with power cord

Also, make sure at least one of the following network services is supported:

- HPE Aruba Networking Discovery Protocol (ADP)
- DNS server with an "A" record
- DHCP Server with vendor specific options



Access points are radio transmission devices and as such are subject to governmental regulation. Network administrators responsible for the configuration and operation of access points must comply with local broadcast regulations. Specifically, access points must use channel assignments appropriate to the location in which the access point will be used.

Outdoor Planning and Deployment Considerations

Prior to deploying an outdoor wireless network, the environment must be evaluated to plan for a successful WLAN deployment. Successfully evaluating the environment enables the proper selection of access points and antennas and assists in the determination of their placement for optimal RF coverage.



The rules for the 5600-5650 MHz band vary by region.

Identifying Specific Installation Locations

Use the intended RF design provided by the professionals. Each location should be as close as possible to the center of the intended coverage area and should be free from obstructions or obvious sources of interference. These RF absorbers/reflectors/interference sources will impact RF propagation and should be accounted for during the planning phase and adjusted for in RF plan.

Identifying Known RF Absorbers/Reflectors/Interference Sources

Identifying known RF absorbers, reflectors, and interference sources while in the field during the installation phase is critical. Make sure that these sources are taken into consideration when you attach an access point to its fixed location.

RF absorbers include:

- Cement/concrete—Old concrete has high levels of water dissipation, which dries out the concrete, allowing for potential RF propagation. New concrete has high levels of water concentration in the concrete, blocking RF signals.
- Natural Items—Fish tanks, water fountains, ponds, and trees
- Brick

RF reflectors include:

- Metal Objects—Metal pans between floors, rebar, fire doors, air conditioning/heating ducts, mesh windows, blinds, chain link fences (depending on aperture size), refrigerators, racks, shelves, and filing cabinets.
- Do not place an access point between two air conditioning/heating ducts. Make sure that access points are placed below ducts to avoid RF disturbances.

RF interference sources include:

- Other Wi-Fi networks
- Microwave ovens
- Bluetooth devices

Access Point Installation

The 670EX Series access point can be installed on a wall or a pole by using a compatible mount kit. HPE Aruba Networking provides several mount kits to use with the 670EX Series access point. These mount kits are available as accessories and must be ordered separately.

Table 5: Mount Kits for 670EX Series Access Point

Part Number	Description	Installation Guide
R9H97A	AP-OUT-MNT-V1A long-arm wall or pole mount kit. It's usually for omni antenna and connectorized APs.	AP-OUT-MNT-V1A Installation Guide
JW053A	AP-270-MNT-V2 short-arm wall or pole mount kit. It's usually for omni antenna and connectorized APs.	AP-270-MNT-V2 Installation Guide
JW054A	AP-270-MNT-H1 articulating up-down wall or pole mount kit. It's usually for directional antenna APs	AP-270-MNT-H1 Installation Guide
JW055A	AP-270-MNT-H2 non-articulating wall mount for directional APs, or ceiling mount for omni antenna APs	AP-270-MNT-H2 Installation Guide
R6W11A	AP-270-MNT-H3 dual-articulating (up-down, left-right) for wall or pole mounting of directional APs, or ceiling mounting APs on uneven ceilings	AP-270-MNT-H3 Installation Guide

All HPE Aruba Networking access points 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.



Tous les points d'accès 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.



This 670EX Series access point is intended for installation in a RESTRICTED ACCESS LOCATION attached to a pole or installed on a wall. Installers should disconnect power before working with or near the access point.

Grounding Access Point

Grounding the access point must be completed before powering up the AP. The ground wire should be #8 AWG.

1. Strip the insulating jacket off of one end of the ground wire and place the bare conductor into the ground lug (included in the package), then crimp the connection by pressing firmly with the crimping pliers.

2. Fasten the ground lug to the grounding point on the access point with the screw included in the package. Tighten the screw to a torque of 6.5 in/lbs (0.74 Nm).

Connecting Ethernet Cable

To connect an Ethernet cable to the access point, perform the following steps using the CMP A2F cable gland (ATEX Certificate: CML18ATEX1321X; IECEx Certificate: IECEx CML 18.0179X).



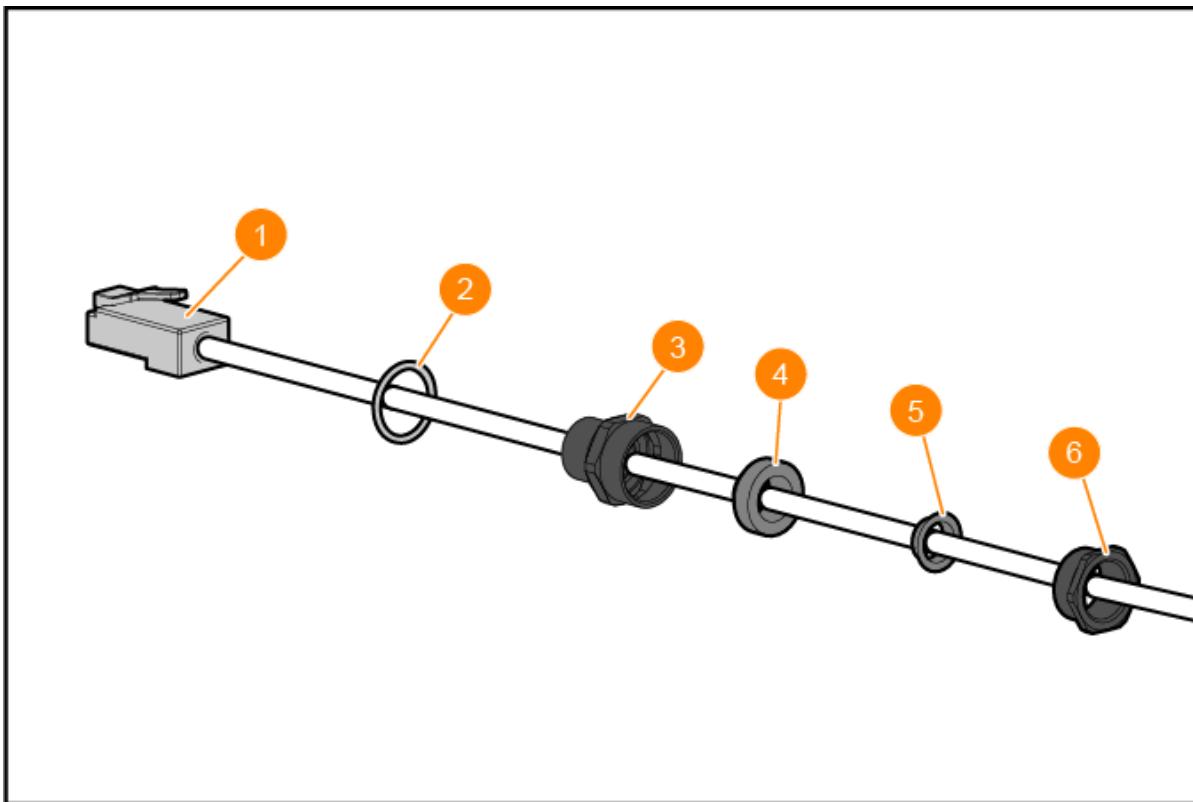
Failure to use the included Ethernet cable gland can lead to connectivity and PoE issues.



The Ethernet cable is not included and must be purchased separately. Purchase a suitable UV-resistant, outdoor rated, CAT 5E or better shielded cable with an outer diameter between 6.5-14 mm for use with the access point.

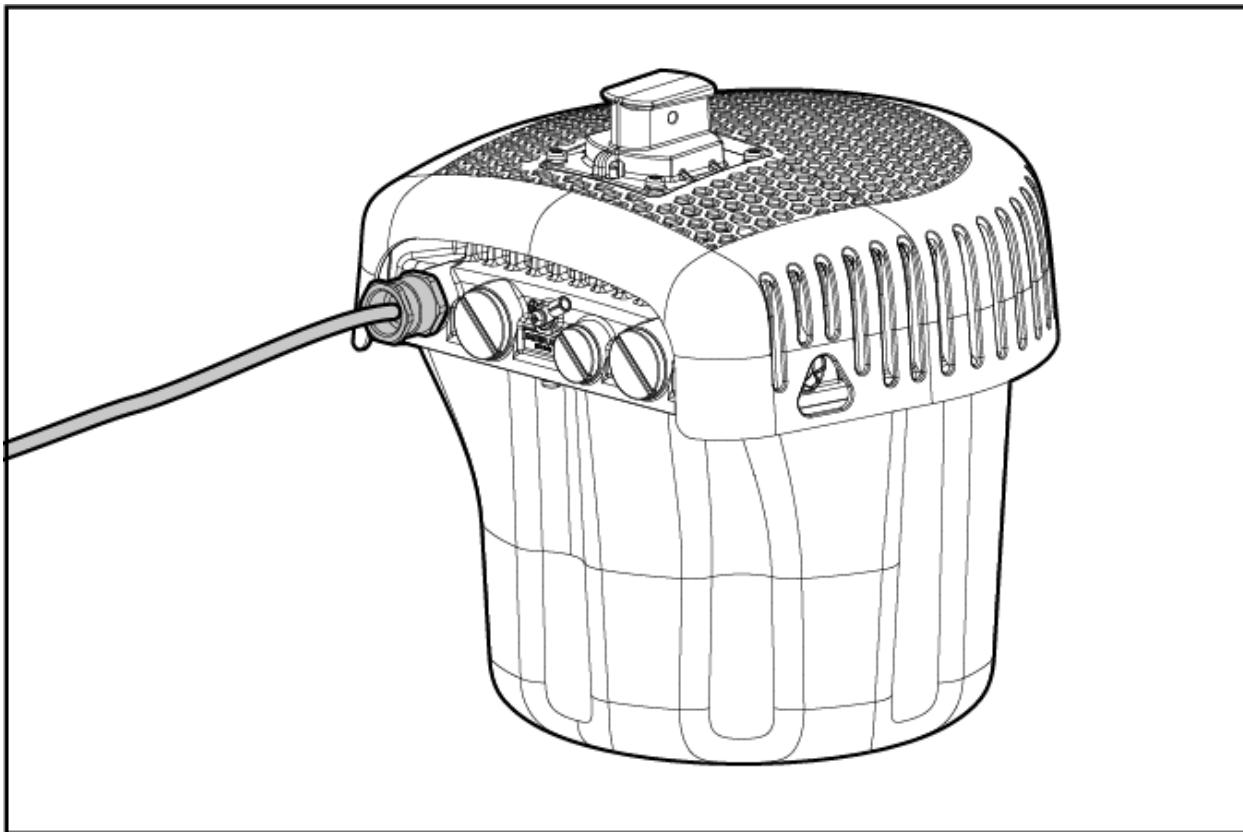
1. Remove the dust cap from the Ethernet port.
2. Slide the sealing nut, seal A, seal B, gland body, and O-ring over the cable.
3. Insert the RJ45 connector to the Ethernet port.
4. Place the O-ring on the gland body, and ensure it is in place.
5. Thread the gland body into the Ethernet port, and tighten to a torque of 70.5 in/lbs (8.0 Nm).
6. Push the seal B and seal A into the gland body and tighten the sealing nut onto the gland body to a torque of 53 in/lbs (6.0 Nm).
7. Connect the other end of the Ethernet cable to a PoE port of a compliant PoE Injector or PoE switch.

Figure 5 Ethernet Cable and CMP A2F Cable Gland Assembly



1	Ethernet Cable
2	O-ring
3	Gland Body
4	Seal A
5	Seal B
6	Sealing Nut

Figure 6 Ethernet Cable and CMP A2F Cable Gland installed to AP



Connecting Fiber-optic Cable



The fiber-optic cable is not included in the package and must be purchased separately. Purchase a suitable 6.5 - 14 mm diameter, UV-resistant, outdoor rated cable for use with the access point.

To connect a fiber-optic cable to the access point, an SFP transceiver module and a CKIT-EX-OD-SFP gland kit are required. They are not included in the package and must be purchased separately. Refer to the ordering guide of the 670EX Series access point for details.

To connect the fiber-optic cable to the SFP port (E1), follow the installation steps in the [CKIT-EX-OD-SFP Gland Kit Installation Guide](#).

Software

For instructions on choosing operating modes and initial software configuration, refer to the [AP Software Quick Start Guide](#).



HPE Aruba Networking access points are classified as radio transmission devices, and are subject to government regulations of the host country. The network administrator(s) is/are responsible for ensuring that configuration and operation of this equipment is in compliance with their country's regulations. For a complete list of approved channels in your country, refer to the [HPE Aruba Networking Downloadable Regulatory Table](#).

Verifying Post-Installation Connectivity

The integrated LED on the access point can be used to verify that the access point access point is receiving power and initializing successfully (see Table 1-Table 2).

This chapter provides an overview of the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points specifications, safety, and compliance information.

Specifications

Electrical

- Ethernet
 - E0 port: 100/1000/2500Base-T auto-sensing MDI/MDX wired RJ45 network connectivity port. Maximum voltage is 57 V and current is 1.1A.
 - E1 port: SFP port
- Power
 - Power over Ethernet (PoE): 802.3at or 802.3bt compliant source

Environmental

- Operating
 - Operating Temperature Range: -40°C to +70°C (-40°F to +158°F) (without solar loading)
 - Operating Temperature Range: -40°C to +65°C (-40°F to +149°F) (with solar loading)
 - Operating Humidity Range: 5% to 93% (RH), non-condensing
 - The equipment must be installed and used in an area of at least pollution degree 3, as defined in IEC60664-1.
- Storage
 - Storage Temperature Range: -40°C to +70°C (-40°F to +158°F)
 - Storage Humidity Range: 5% - 93% (RH), non-condensing

For additional specifications on this product, please refer to the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points data sheet.

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 for the HPE Aruba Networking 670EX Series Hazardous Location Outdoor Access Points:

- AP-675EX RMN: APEX0675
- AP-677EX RMN: APEX0677
- AP-679EX RMN: APEX0679

Brazil

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

O uso deste equipamento é restrito a ambientes fechados e proibido em plataformas petrolíferas, carros, trens, embarcações e no interior de aeronaves abaixo de 3.048 m (10.000 pés).

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

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.

When operated in the 5.15 to 5.25 GHz frequency range, this device is restricted to indoor use to reduce the potential for harmful interference with co-channel Mobile Satellite Systems.



Devices shall not be used for control of or communications with unmanned aircraft systems.

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.

Pour un fonctionnement dans la bande de fréquences comprises entre 5,15 et 5,25 GHz, son utilisation est limitée à un environnement intérieur afin de réduire la possibilité d'interférences nuisibles avec les systèmes mobiles par satellite opérant sur le même canal.



Cet appareil ne doit pas être utilisé pour le contrôle ou pour la communication avec des systèmes de drones.

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., Бостандық ауданы, Әл-Фараби даңғылы, 77/7, Телефон/факс: +7 727 355 35 50



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](#)

Wireless Channel Restrictions

5150-5350MHz and 5945-6425MHz bands are limited to indoor only in 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)).

Radio	Frequency Range	Max EIRP
BLE/Zigbee	2402-2480 MHz	10 dBm
Wi-Fi	2412-2472 MHz	20 dBm
	5150-5250 MHz	23 dBm
	5250-5350 MHz	23 dBm
	5470-5725 MHz	30 dBm
	5725-5850 MHz	14 dBm
	5945-6425 MHz (Indoor only)	23 dBm



EU & UK Regulatory Contact:

HPE, Postfach 0001, 1122 Wien, Austria

India

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

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 access point. Otherwise, degradation of the performance of this equipment could result.



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 ordering guide for this access point at <https://www.arubanetworks.com>

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Taiwan

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

1. 應避免影響附近雷達系統之操作。
2. 高增益指向性天線只得應用於固定式點對點系統
3. 電波功率密度 MPE 標準值 1 mW/cm^2

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

Thailand



Ukraine

Hereby, Hewlett Packard Enterprise 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/public/certificates.html>.

ХІОЛЕТТ ПАКАРД ЕНТЕРПРАЗ, 6280 АМЕРИКА ЦЕНТР Д-Р, САН-ХОСЕ, КАЛІФОРНІЯ 95002, США

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, and (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.

Improper termination of access points installed in the United States configured to a non-US model controller is a violation of the FCC grant of equipment authorization. Any such willful or intentional violation may result in a requirement by the FCC for immediate termination of operation and may be subject to forfeiture (47 CFR 1.80).

The network administrator(s) is/are responsible for ensuring that this device operates in accordance with local/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 17.72 inches (45cm) 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 45 cm (17,72 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.



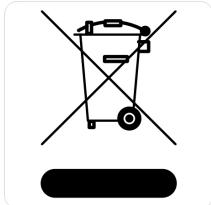
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

Proper Disposal of HPE Aruba Networking Equipment

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

Waste of Electrical and Electronic Equipment



HPE Aruba 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



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

This product complies with RoHS requirements as prescribed by E-Waste (Management & Handling) Rules, governed by the Ministry of Environment & Forests, Government of India.

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	0	0	0	0	0	0
传输线和网路线	0	0	0	0	0	0
断路器	X	0	0	0	0	0
冷却 & 加热系统	0	0	0	0	0	0
磁盘控制器	X	0	0	0	0	0
外部机箱	X	0	0	0	0	0
风扇	0	0	0	0	0	0
液晶显示器	X	0	0	0	0	0
硬盘(HDD)	X	0	0	0	0	0
液压 / 气压系统	0	0	0	0	0	0
键盘	0	0	0	0	0	0
介质 (CD/DVD/光盘驱动器)	0	0	0	0	0	0
记忆体	0	0	0	0	0	0
鼠标	0	0	0	0	0	0
其他机械组装设备	X	0	0	0	0	0
电源/电源适配器	X	0	0	0	0	0
印刷电路组件 (PCAs)	X	0	0	0	0	0
天线	X	0	0	0	0	0

本表格依据 SJ/T 11364 的规定编制

0：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(EPU)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	○	○	○	○	○	○
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 material content declaration

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur

Special Requirement for Safe Use

1. WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
AVERTISSEMENT - NE PAS OUVRIR LORSQUE UN EXPLOSIF L'ATMOSPHÈRE EST PRÉSENTE.
2. The connections on this equipment are not intended to be connected or disconnected when an explosive atmosphere is present.
AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION.
3. WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.
AVERTISSEMENT - ÉLECTROSTATIQUE POTENTIEL RISQUE DE CHARGE - VOIR LES INSTRUCTIONS.
4. Only qualified personnel are allowed for on-site installation and electrical connections of equipment.
5. Manual switch TSVB-21F-08 are protected by minimum IP66 enclosure, it is not allowed to operate the switch in hazardous area.
6. Required protection shall be applied to avoid the mechanical damage of high risk occurred by the final installation.

7. Only ATEX/IECEx cable glands as specified in the instruction to be installed and used on the enclosure, and IEC/EN 60079-14 shall be observed when installing. Suitable type of protection Cable gland to be selected with spec: M20*1.5 with minimum IP66 rating. Unused cable entry ports to be blocked by the specified M20*1.5 Cap and M25*1.5 cap or Ex plugs with minimum IP66 rating.
8. Earthing system shall be finished in accordance with the installation guide before use.
9. Damaged protective vents have to be replaced immediately.
10. Type-A and Type-C USB ports shall not be used in hazardous area.
11. The maximum power dissipated by equipment should be limited in accordance with the installation guide.
12. External connections should be observed in accordance with the requirements of the installation guide and IEC/EN 60079-14.
13. Cleaning with a wet cloth.
14. Touch with insulating objects.
15. Don't rub the surface of antenna enclosure and solar shield.
16. APEX0675, APEX0677 and APEX0679 shall be used in a controlled environment and avoid any faster airflow causing a charge transfer.
17. Earthing system shall be connected in accordance with the installation guide.



The equipment is intended to use in outdoor and environmentally challenging locations such as oil rigs, mining facilities, and industrial plants, networks need to be protected from extreme temperatures, flammable gases or vapors, and dust concentrations.



The equipment to be used in Zone 2 or CID2 hazardous area only with gas group IIC or Groups A, B,C and D.

Maximum Power Consumption Limitation

Peak =29W, Average=27W

Standard Compliance

- EN IEC 60079-0:2018
- EN IEC 60079-7:2015/A1:2018
- EN 60079-31: 2014
- IEC 60079-0:2017 Edition 7.0
- IEC 60079-7:2015+A1:2017 Edition 5.1
- IEC 60079-31:2022 Edition 3.0
- CSA C22.2 No.213-17
- UL 121201 Ninth Edition

ATEX Certificate Number and Marking

TÜV 23 ATEX 9042 X issue 01



II 3 G Ex ec IIC T4 Gc



II 3 D Ex tc IIIC T85°C Dc

IECEx Certificate Number and Marking

- IECEx TUR 23.0042X issue No: 01
- Ex ec IIC T4 Gc
- Ex tc IIIC T85°C Dc

cCSAus Ex Marking

Class I, Division 2, Groups A, B, C and D T4