AP122 Hardware User Guide

Read about and view specifications and compliance information for the AP122 in this topic. Install the AP122 using this topic.

The AP122 is optimally suited for coverage-oriented, low-to-medium capacity environments. The AP122 features dual 2x2, 2-stream radios, providing dual 802.11n or 11n/ac performance with data rates up to 867 Mbps using existing 802.3af PoE infrastructure.

For more information about Aerohive APs in general, see "Introduction to Aerohive APs".

For information about connecting your AP to the network, best-practices, and troubleshooting, see "Basic Troubleshooting for New Devices"

Important! Changing the Country Code

If your access point is configured for the World Regulatory Domain, it is important to set the country code to the country in which the AP will be deployed to meet regulatory requirements and for optimal wireless operation. To do this, follow these steps:

> *The country code selection is for World models only and is not available to FCC, CAN, and other country-specific models. Per FCC regulations, all Wi-Fi products marketed in the United States must be set to U.S. channels only.*

For Devices Running HiveManager:

1. Power on the AP and allow it to find and connect to HiveManager. Once the AP is connected, it appears in the table of unconfigured devices on the *Monitor > Devices* page and is categorized as New under the Management Status table header.

2. Select the check box for the AP, and then choose **Update > Advanced > Update Country**.

3. On the *Update Country Code* page, choose the appropriate country code from the drop-down list, and then click **Upload**.

For Devices Running HiveManager NG:

1. Power on the AP and allow it to find and connect to HiveManager NG. Once the AP is connected it appears in the table of devices on the *Monitor > Devices* page.
2. Select the check box next to the AP, and then choose **Assign Country Code** from the *Actions* drop-down list. In the dialog box that appears, select the appropriate country from the drop-down list, and then click **Save**.
3. Upload your changes to the device.

Regulatory Compliance Statements

The regulatory compliance statements in this section apply to AP122 devices.

((•)) *For Japan, the AP122 is restricted for indoor use in the 5150-5350 MHz band only.*

Compliance Statements

The following compliance information applies to the AP122.

R&TTE Directive

This device is compliant with the following directives:

- R&TTE Directive 1995/5/EC

AP122 Compliance Statement - Europe

EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

IEC 60950-1:2005 +A1 +A2

Safety of Information Technology Equipment

EN 50385: / Article 3(1)(a) and Article 2 /EC)

Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)

EN 300 328 V1.9.1:

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 893 V1.8.1:

Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

EN 301 489-1 V1.9.2:

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V2.2.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

- **Česky [Czech]:** [Aerohive] tímto prohlašuje, že tento [AP122] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

- **Dansk [Danish]:** Undertegnede [Aerohive] erklærer herved, at følgende udstyr [AP122] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

- **Deutsch [German]:** Hiermit erklärt [Aerohive], dass sich das Gerät [AP122] in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

- **Eesti [Estonian]:** Käesolevaga kinnitab [Aerohive] seadme [AP122] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

- **English**: Hereby, [Aerohive], declares that this [AP122] is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

- **Español [Spanish]**: Por medio de la presente [Aerohive] declara que el [AP130] cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

- **Ελληνική [Greek]**: ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [Aerohive] ΔΗΛΩΝΕΙ ΟΤΙ [AP122] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

- **Français [French]**: Par la présente [Aerohive] déclare que l'appareil [AP130] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

- **Italiano [Italian]**: Con la presente [Aerohive] dichiara che questo [AP122] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

- **Latviski [Latvian]**: Ar šo [Aerohive] deklarē, ka [AP122] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

- **Lietuvių [Lithuanian]**: Šiuo [Aerohive] deklaruoja, kad šis [AP122] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

- **Nederlands [Dutch]**: Hierbij verklaart [Aerohive] dat het toestel [AP122] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

- **Malti [Maltese]**: Hawnhekk, [Aerohive], jiddikjara li dan [AP122] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

- **Magyar [Hungarian]**: Alulírott, [Aerohive] nyilatkozom, hogy a [AP122] megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.

- **Polski [Polish]**: Niniejszym [Aerohive] oświadcza, że [AP122] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

- **Português [Portuguese]**: [Aerohive] declara que este [AP122] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

- **Slovensko [Slovenian]**: [Aerohive] izjavlja, da je ta [AP122] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
- **Slovensky [Slovak]**: [Aerohive] týmto vyhlasuje, že [AP122] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
- **Suomi [Finnish]**: [Aerohive] vakuuttaa täten että [AP122] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Federal Communication Commission Interference Statement

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 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 of the following measures:

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. If this device operates in the 5.15~5.25 GHz frequency range, it is restricted to indoor use only.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 7.8" (20 cm) between the radiator people or animals.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada Regulatory ISED Statements:

This device complies with ISED (Innovation, Science and Economic Development) Canada license-exempt RSS standard(s). Operation 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 of the device.

Le présent appareil est conforme aux CNR d' ISED Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For products available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Caution:

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

(iii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

(iv) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5250 à 5 350 MHz et de 5470 à 5725 MHz doit être conforme à la limite de la p.i.r.e;

(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;

(iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator people and animals.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et des personnes ou des animaux.

Taiwan Compliance Information

Aerohive AP122

第十二條→經型式認證合格之低功率射頻電機，非經許可，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。

第十四條→低功率射頻電機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。

前項合法通信，指依電信法規定作業之無線電通信。 低功率射頻電機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。

在 5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備，限於室內使用。

無線資訊傳設備的製造廠商應確保頻率穩定性，如依製造廠商使用手冊上所述正常操作，發射的信號應維持於操作頻帶中。

Taiwan MPE Warning

電磁波曝露量MPE標準值(MPE) 1mW/cm2，送測產品實值為0.734 mW/cm2

Radiation Exposure Statement:

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8") between the radiator, and people or animals.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et des personnes ou des animaux.

Taiwan Compliance Information - Aerohive AP122

第十二條→經型式認證合格之低功率射頻電機，非經許可，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。

第十四條→低功率射頻電機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。

前項合法通信，指依電信法規定作業之無線電通信。 低功率射頻電機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。

在 5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備，限於室內使用。

無線資訊傳設備的製造廠商應確保頻率穩定性，如依製造廠商使用手冊上所述正常操作，發射的信號應維持於操作頻帶中。

Taiwan MPE Warning - Aerohive AP122

電磁波曝露量MPE標準值(MPE) 1mW/cm2，送測產品實值為0.196868 mW/cm2

NCC Statement - Aerohive AP122

1. 「經型式認證合格之低功率射頻電機，非經許可，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」。
2. 「低功率射頻電機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。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機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」。
3. 「不致造成違反低功率電波輻射性電機管理辦法之所有控制、調整及開關之使用方法」。
4. 「對任何可能造成違反管理辦法規定之調整予以警告，或建議由具有發射機維修專長之技術人員執行或由其直接監督及負責」。
5. 「對任何可能造成違反管理辦法之零件(晶體、半導體等)置換之警告」。
6. 「電磁波曝露量MPE標準值1mW/cm2，送測產品實測值為：0.196868 mW/cm2」。
7. 「本器材須經專業工程人員安裝及設定，始得設置使用，且不得直接販售給一般消 費者」。
8. 「經型式認證合格之低功率射頻電機，非經許可，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」。

Safety Guidelines

Safety Guidelines

The information in this section applies to AP122 devices.

The following safety icons are used in these guidelines to identify the type of precaution:

⚠	This icon indicates a general caution. Failure to comply with a caution notification can result in damage to equipment.
⚡	This icon indicates an electrical caution. Failure to comply with an electrical notification can result in serious injury or death, and extensive damage to equipment.
☀	This icon indicates a laser caution. Failure to comply with a laser caution can result in serious injury.

The following table lists the safety precautions you should follow when installing your AP122 devices.

⚡	Aerohive devices must be installed by a professional installer who is certified to install these types of devices and to ensure that they are properly grounded and meet applicable local and national electrical codes.

⚠	These devices are intended for indoor use only.
⚠	Do not install the device in an environment where the operating ambient temperature might exceed the recommended ranges.
⚠	For products available in the USA/Canada market, for the 2.4 GHz band, only channels 1-11 can be operated. Selection of other channels is not possible.
⚠	Changes or modifications made to this device that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
⚠	Use only attachments and accessories specified by Aerohive.
⚠	These devices are not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or with lack of experience of knowledge unless they are given supervision or instruction concerning use of the devices by a person who is responsible for their safety. Children should be supervised to ensure that they do not play with the devices.
⚡	Electrostatic discharge (ESD) can damage equipment and impair electrical circuitry. ESD damage occurs when electronic components are improperly handled and can result in complete or intermittent failures. Be sure to follow ESD prevention procedures when handling electronic components and equipment.
⚡	During operation, the surfaces of the AP122 can become hot. Use caution when handling.
☢	To meet federal radiation exposure requirements, these devices should be installed at a minimum distance of 7.8" (20 cm) from people or animals.

Install the AP

You can mount the AP122 on a flat surface or wall, or on the rails of a standard dropped ceiling grid using the hardware on the back of the chassis.

The following sections describe how to install your AP122 devices and connect them to the network.

Shipping Carton Contents

The AP122 access point shipping carton contains the following items:

- AP122 chassis
- Generic QuickStart Guide
- 3 wall-mount screws with anchors

Dropped Ceiling Mount

The following steps explain how to mount the AP122 on the rail of a dropped ceiling.

Make sure that you have all the materials and tools necessary, and familiarize yourself wit the safety and site hazard warnings before you install the device. You may need to drill a small hole in the adjacent ceiling tile to accommodate the cable. Before you begin, lift the ceiling tiles adjacent to the location on the rail where you will install the device for better access. Once the device is installed, you can slide it along the rail to better adjust its position.

Use the following steps to install your device to a dropped-ceiling rail.

1. For a dropped ceiling mount, use the mount tabs and clips on the bottom of the device.
2. Hold the device upside down and slip the mount tabs over the sides of the ceiling rail.
3. Press the device gently against the ceiling rail and rotate it until the mount clips click into place.

Wall or Non-dropped Ceiling Mount

Use the built-in wall mount slots on the back of the chassis to attach the AP122 to any vertical or horizontal surface (such as a wall or a drywall ceiling) that supports its weight (1.16 lb, or 0.56 kg), and to which you can install wall mount screws. To mount the AP122 on a wall or other flat surface, perform the following steps:

1. Make two marks where you want to mount the device on the wall or surface exactly 2.5" (64 cm) apart.
1. Drill two holes that are slightly smaller in diameter than the mounting screws.
2. Install two wall mount screws (and plastic anchors if necessary). The screw heads must protrude far enough from the wall so that the chassis will slip over the screw heads, and leave enough room to access the console connector. If you are connecting the device to cables from inside the wall, drill an access hole for the cables.
3. Insert the heads of the screws into the large end of the wall mount slots and slide the device down (or sideways for ceiling mounts) until the screws are seated in the narrow end of the keyholes.

   📶 *You can lock the device to the wall or ceiling using a security bracket that can be ordered as an accessory.*

4. To remove the device from the wall or ceiling, slide the chassis up until the screw heads slip out of the wall mount slots.
5. The AP122 is PoE powered, so you must connect an Ethernet cable directly from the ETH0 port to a PoE-enabled switch or to a PoE injector.

   📶 *You can also mount these devices to non-standard or recessed dropped ceiling tracks using brackets designed for 9/16" (1.34 cm) tracks. These brackets can be ordered from Aerohive (AH- ACC-BKT-80211AC-KIT). Not available in Brazil.*

Removing the Device

To remove the device, press the mount clips until they disengage from the rail, then rotate the device and pull it away from the rail. A flat-blade screwdriver will make it easier to access and press the clips.

Locking the AP

You can secure the AP using a Kensington® lock in the lock slot on the side of the device, or you can use a security bracket and a crosshead screw or a security screw. Security brackets and screws can be ordered separately from Aerohive (not available in Brazil).

Aerohive recommends a variety of Kensington locks. For more information, contact your sales representative.
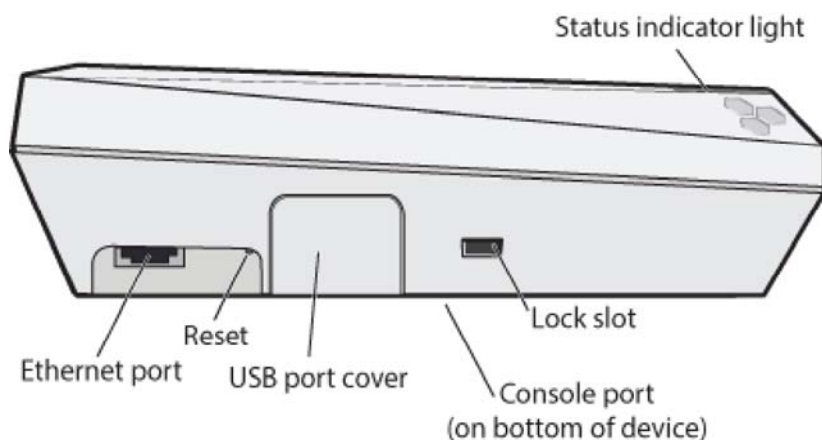
Connecting the AP to the Network

Follow these steps to connect your AP122 to PoE (power over Ethernet) power and to the network.

1. Connect a standard RJ45 Ethernet cable from ETH0 on the AP to a switch.

2. If the switch provides PoE (power over Ethernet), cabling the AP to the switch will power-on the AP in a few seconds. If the switch does not provide PoE, use a PoE injector. For more information about Aerohive PoE injectors, contact your Aerohive representative.

3. After you power on the AP, it automatically tries to get network settings and contact HiveManager NG. This process takes about five minutes. When you see the AP listed on the *All Devices* page in the *Monitor* section of the HiveManager NG GUI, the initial setup is complete and you can begin managing the AP with HiveManager NG.

Hardware Components

You can see the hardware components of the AP122 in the illustration below and read about them in the sections that follow.

Component Descriptions

Status Light

The status light conveys operational states for system power, firmware updates, Ethernet and wireless interface activity, and major alarms. The AP122 has a rectangular status light bar on the top corner and down one side of the chassis. The colors of this light bar indicate the following states of activity:

Dark: There is no power or the status indicator is disabled.

Amber (flashing): This is an alert that indicates that the device is performing a firmware upgrade. Do not power off the device during this process.

Amber (steady): This is an alert that indicates that the CAPWAP connection has not been successfully established, or the device is booting or shutting down.

White: The device is powered on, a successful CAPWAP connection has been made, and the firmware is operating normally. During normal operation, the LED produces a slow blink consisting of 4 seconds of illumination followed by one minute of darkness. To extend the life of the status LED, turn it off completely for normal use, and turn it on when needed for troubleshooting.

To extend the life of the status LED, turn it off completely for normal use, and turn it on when needed for troubleshooting.

To turn the LED on or off or change the brightness using the CLI, enter:

```
system led brightness [ bright | soft | dim | off]
```

You can adjust the brightness level from bright (the default) to soft to dim, or turn it off completely in HiveManager NG. Navigate to **Configure > Network Policy > Additional Settings > Network Service > Management Options**. Turn Management Options on and scroll down to the *System Settings* section. Use the LED brightness drop-down to select the brightness level that you want.

> *When you change the brightness setting here, the new setting will apply to all devices under this network policy. To change the LED brightness for a single device, establish a console connection and use the CLI command.*

For devices running HiveManager Classic, you can set the LEDs for all APs on your network to blink or remain steady. Navigate to **Home > Device Management Settings > LED Mode**.

Console Port

Through the Console port, you can make a serial connection between your management system and the AP. When you connect to the device using the RJ45 Console port, the management station from which you connect to the device must have a VT100 emulation program, such as Tera Term Pro© (a free terminal emulator) or Hilgraeve HyperTerminal® (provided with Windows® operating systems from XP forward). The serial connection settings are: 9600 bits per second, 8 data bits, no parity, 1 stop bit, no flow control.

The pin-to-signal mapping for the Console port is shown in "Aerohive Device Pin Assignments".

Power Connector

You can power the AP122 through the ETH0 port from PSE (power sourcing equipment) that is compatible with the 802.3af and 802.3at standards. Because there is no on/off switch, these devices automatically power on when you connect them to power.

Ethernet Port

The AP122 has one RJ45 10/100/1000Base-T/TX Ethernet port (ETH0) that automatically negotiates half- and full-duplex connections with the connecting device. The port is autosensing and adjusts to straight-through and crossover standard Cat3, Cat5, Cat5e, or Cat6 Ethernet cables automatically. The AP receives PoE power through an Ethernet connection to the ETH0 port from PSE (power sourcing equipment) that is compatible with the 802.3at and 802.3af standards.

Power sourcing equipment can be embedded in a switch or router, or it can come from purpose-built devices that inject power into the Ethernet line en route to the AP. Because the PoE port has autosensing capabilities, the wiring termination in the Ethernet cable can be either straight-through or crossover.

You can purchase your own PoE injector or purchase the following PoE injectors as optional accessories from Aerohive (not available in Brazil):

- AH-ACC-INJ-20W-EU
- AH-ACC-INJ-20W-US
- AH-ACC-INJ-20W-AU
- AH-ACC-INJ-20W-IL

Reset Button

Use the Reset button to reset the device or restore the factory default settings. Insert a paper clip or similar tool into the Reset pinhole and press the button. To reboot the device, press the button for 5 seconds. To return the configuration to the factory default settings, press it for at least 10 seconds. After releasing the button, the indicator light goes dark, and then glows steady amber while the firmware loads and the system performs a self-test. After the software finishes loading and the AP has connected to HiveManager NG, the status indicator glows steady white.

To prevent the reset button from resetting the configuration, enter this command: `no reset-button reset-config-enable`. When this command is enabled, pressing the button for 5 seconds will still reboot the AP, but pressing it for more than 10 seconds will not reset its configuration.

Antennas

The AP122 has four internal single-band antennas. All antennas are omnidirectional and provide fairly equal coverage in all directions.

Lock Slot

When mounting the AP on a ceiling track or flat surface, you can secure it to the track using a Kensington® lock in the lock slot or using the security screw and bracket that ships with the device. See "Locking the AP".

Hardware Specifications

The following specifications describe the physical features and hardware components, the power adapter and PoE electrical requirements, and the temperature and humidity ranges in which the devices can operate.

Radio Specifications

802.11a

- 5.150-5.850 GHz operating frequency
- Orthogonal Frequency Division Multiplexing (OFDM) modulation
- Rates (Mbps): 54, 48, 36, 24, 12, 9, 6 with auto fallback

802.11b

- 2.4-2.5 GHz operating frequency
- Direct-Sequence Spread-Spectrum (DSSS) modulation
- Rates (Mbps): 11, 5.5, 2. 1 with auto fallback

802.11g

- 2.4-2.5 GHz operating frequency
- Orthogonal Frequency Division Multiplexing (OFDM) modulation
- Rates (Mbps): 54, 48, 36, 24, 12, 9, 6 with auto fallback

802.11n

- 2.4-2.5 and 5.150-5.850 GHz operating frequency
- 802.11n modulation
- Rates (Mbps): MCSO - MCS15 (6.5 Mbps - 300 Mbps)
- 2x2 MIMO radio
- HT20 and HT40 (5GHz) High-Throughput (HT) support
- A-MPDU and A-MSDU frame aggregation

802.11ac

- 5.150-5.850 GHz operating frequency
- 802.11ac modulation (256-QAM)
- Rates (Mbps): MCSO - MCS9(6.5 Mbps - 867 Mbps), NSS = 1-2
- 2x2 stream MIMO radio
- VHT20/VHT40/VHT80 support

Device Specifications

- Chassis dimensions: 6.63" W x 2" H x 6.63" D (16.8 cm x 5 cm x 16.8 cm)
- Weight: 1.16 lbs (0.53 kg)
- Two internal 802.11b/g/n 2.4 GHz antennas , and two internal 802.11a/b/g/n/ac 5GHz antennas

- One RJ45 (9600 bits per second, 8 data bits, no parity, 1 stop bit, no flow control)
- Console serial port: RJ45 (9600 bits per second, 8 data bits, parity: none, 1 stop bit, no flow control
- Eth0 Ethernet port: autosensing 10/100/1000Base-T/TX Mbps, with IEEE 802.3af- or 802.3at-compliant PoE

Power Specifications

- PoE nominal input voltages: 48 V
- Typical PoE power consumption is 11 W
- RJ45 power input pins: Wires 4, 5, 7, 8 or 1, 2, 3, and 6

Environmental Specifications

- Operating temperature: 32° to 104° F (0° to 40° C)
- Storage temperature: -40° to 185° F (-40° to 85° C)
- Relative Humidity: 5 to 95% RH (noncondensing)

Aerohive Documentation Portal | Aerohive Blogs | Aerohive Community Forum