ALTA LABS

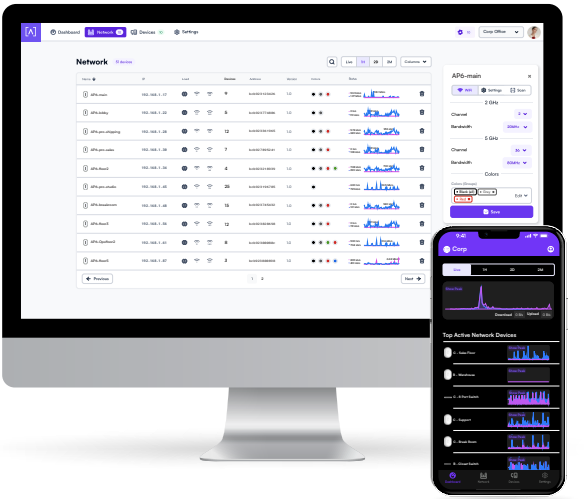


AP7-PRO

QUICK START GUIDE

Before You Begin

Create your free Alta account to manage your Alta devices. Visit **manage.alta.inc** or download the **Alta Networks** app from the Apple App store. (Note: Android app will be available soon)



Download

Package Contents

AP7-Pro



Mounting Plate



Ceiling Mount



Anchors
(Qty. 2)



Wall-Mount
Screws (Qty. 2)



Ceiling Tile
Screws (Qty. 2)



T-Bar Screws



Nuts



Rubber Feet

Note: Be sure to use the included mounting hardware for installation.

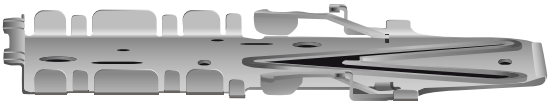
Installation Requirements

- Ethernet cabling (CAT 6 or above)
- 48V PoE+ switch or PoE injector
- Router
- Phillips screwdriver
- Drill and drill bit for wall or ceiling mounting

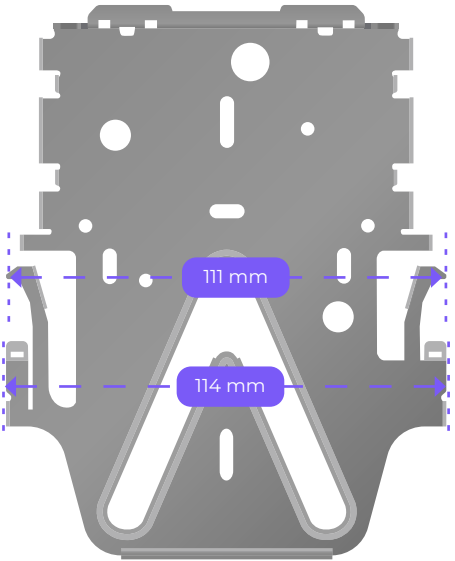
Before You Begin

Visually inspect the mounting plate. If you suspect it has been bent, damaged, or deformed, assure the following:

The mount should rest evenly when placed on a flat surface.

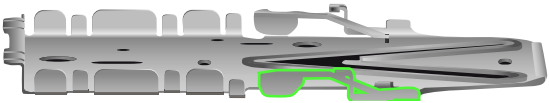


The Locking Arms should be 111 mm across, 114 mm between the mounting tabs. If the dimensions aren't correct, you can bend the arms manually to adjust and correct.



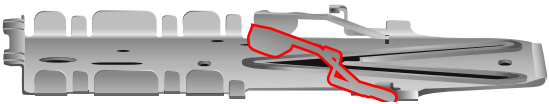
Correct

The arms and mounting tabs should be positioned similar to the image below as they are highlighted:



Incorrect

If the arms and mounting tabs appear to be bent, you can bend them manually to adjust and correct.



Best Practices

- Mount to as smooth a surface as possible
- Don't over tighten the screws to the point where the mount deforms.
- Do not use the rubber feet with wall or ceiling mounting deployments
- Junction box screws are not included
- Screw heads need to be flathead, not panhead, so they don't snag the AP heat sync
- For optimal mounting, ensure that the mount is anchored with 2 or more screws

Hardware Overview

Front



LED Illuminates white by default when AP is online and functional. Can be changed to blue, white, or off in the Alta app or management interface. Flashes when booting.

Back



Ethernet Port Connects to an Ethernet cable from your PoE+ Switch. An optional 48V, 0.5A adapter can be purchased and used to power the AP.

Reset Button Press down for 10 seconds until the LED begins flashing to reset the AP to factory defaults.

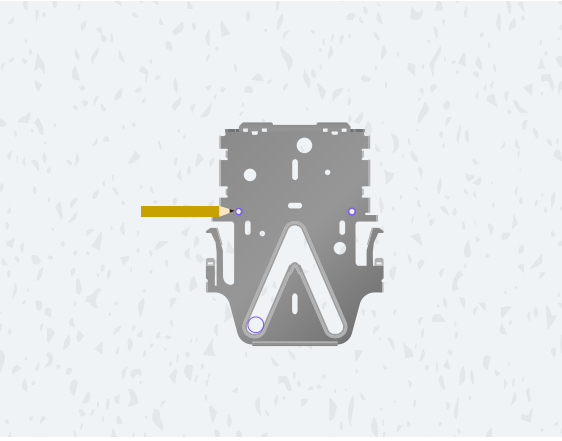
Hardware Installation

Video Tutorial

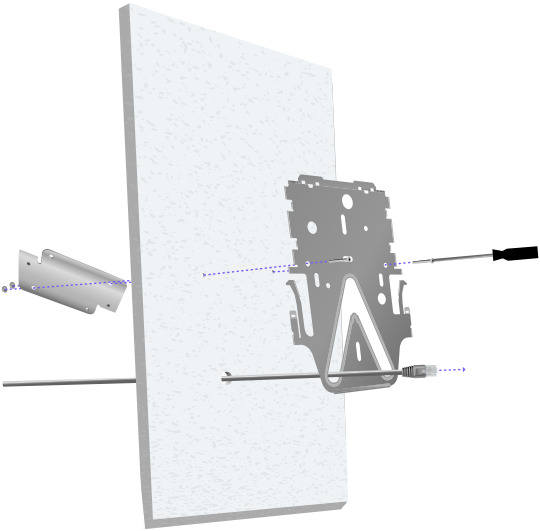
You can view a video on the mounting instructions by scanning the QR code:

Ceiling Tile Mount

1. Remove the appropriate ceiling tile.
2. Align the Mounting Plate in the desired location flat on the tile (typically centered). Mark the areas indicated below for the screws and the Ethernet cable.



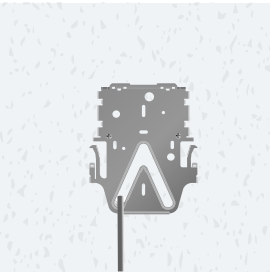
3. Secure the Mounting Plate to the Ceiling Mount with the ceiling tile between using the two Ceiling Tile Screws and the two Nuts.



Assembled Top View



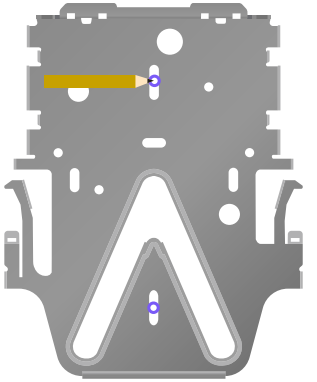
Assembled Bottom View



Proceed to “Connecting The AP” on page 15

Wall Mount

1. Position the Mounting Plate in the desired location and use a pencil to mark the holes.

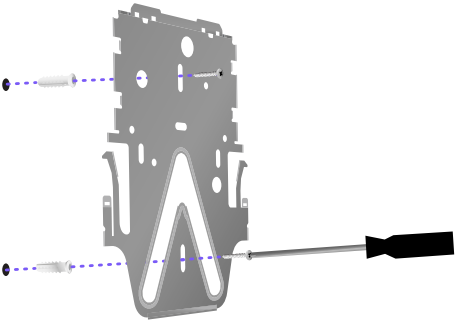


2. If running cabling along the wall, remove the notch on the AP.

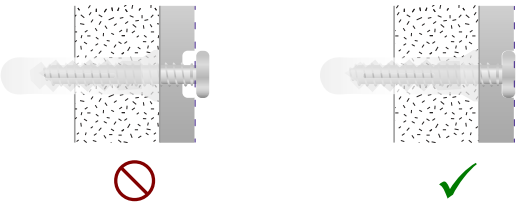


3. Secure the Mounting Plate to the wall using the Wall-Mount Screws and a Phillips screwdriver. Be sure to use the screws included with the product.

   If mounting on drywall, use the anchors to ensure secure mounting. Use a 6 mm drill bit to drill the holes for the anchors and insert them in the wall.



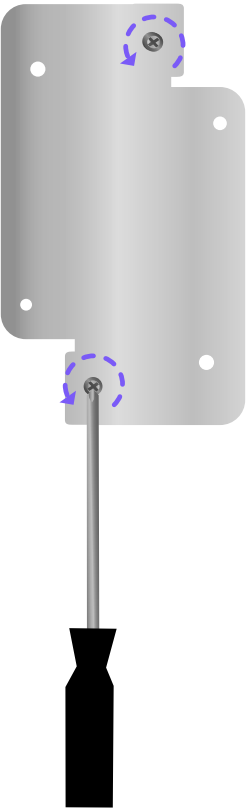
Note: Ensure the included Wall-Mount Screws are flush with Mounting Plate.



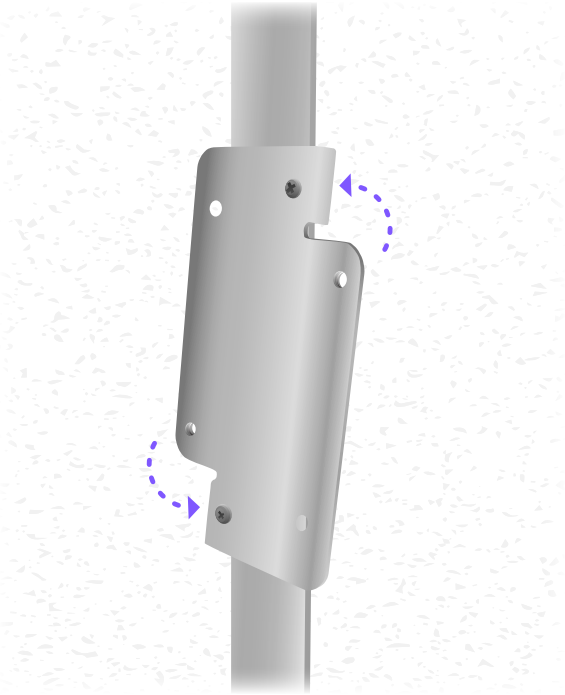
Proceed to “Connecting The AP” on page 15

T-Bar Ceiling Tile Mount

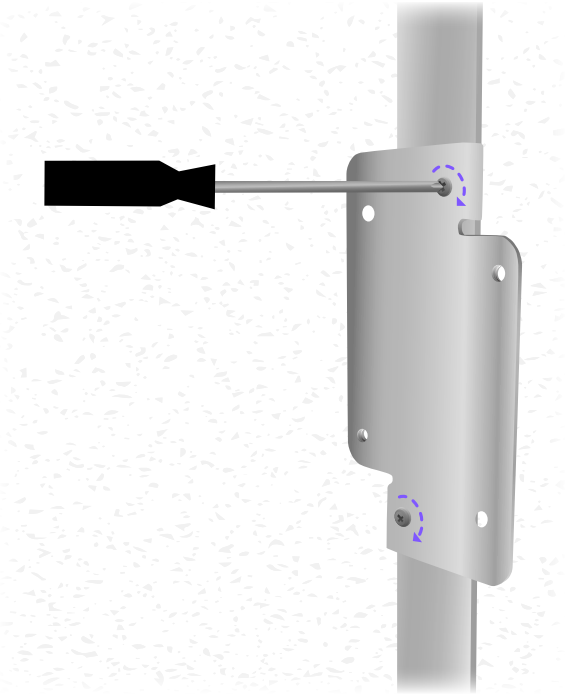
1. Use a small Phillips head screwdriver to loosen the two pre-installed screws on the Ceiling Mount to allow enough clearance for the T-Bar.



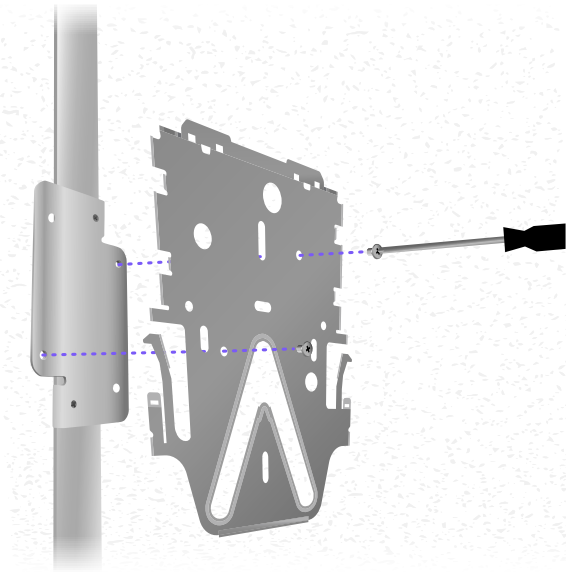
2. Rotate the Ceiling Mount around the T-Bar.



3. Tighten both screws using a Phillips screwdriver.



4. Connect the Mounting Plate to the Ceiling Mount with the T-Bar Screws.

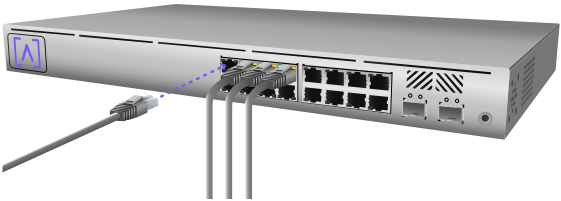


Proceed to “Connecting The AP” on page 15

Connecting The AP

The AP is powered over Ethernet, it can be powered by a PoE+ Switch or using an optional 48V, 0.5A PoE Injector.

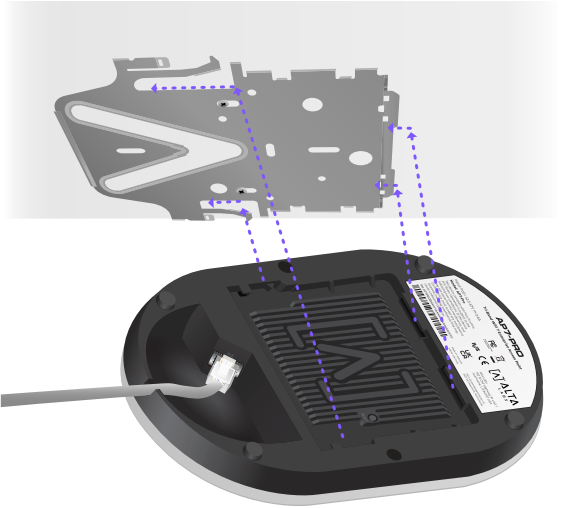
1. Connect an Ethernet cable from your PoE+ Switch (or optional PoE Injector).



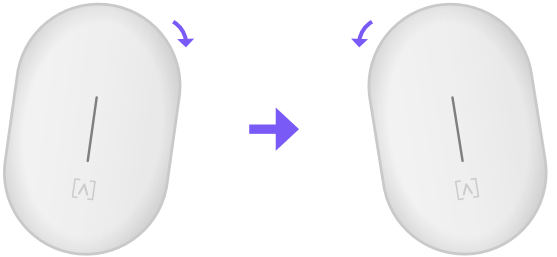
2. Connect the other end to the Ethernet Port on the AP. If mounting on the wall, the Ethernet cable can be fed through the removable notch area.



3. Align the AP with the Mounting Plate.

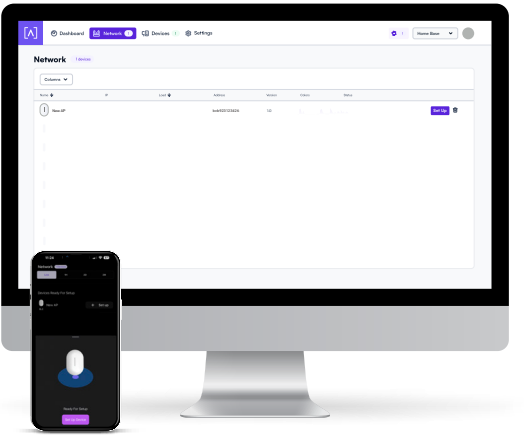


4. Slightly tilt the AP right and then left as you slide the AP down the Mounting Plate to lock it into place. You should hear and feel a click.



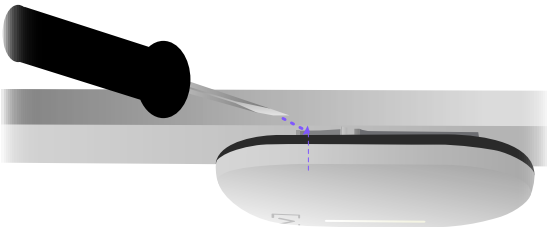
Set Up Your Device

1. Follow the instructions in the Alta app or management interface to set up your AP.



Disconnecting the AP

If you need to remove the AP from the mount, use a flat blade screwdriver to disengage the Mounting Plate at the logo indicator.



Specifications

Model: **AP7-Pro**	
Dimensions	230 x 151.3 x 36.9 mm (9.06 x 5.96 x 1.45")
Weight	1.04 kg (2.3 lbs)
Enclosure	Top Cover: Polycarbonate, Bottom Cover: Milled Aluminum
Mount Hardware	Ceiling/Wall/Drop Ceiling: Steel
Weatherproofing	None
Network Interface	Ethernet, WiFi, Bluetooth
Management Interface	(1) 10 Gbps RJ45
Button(s)	Reset/Factory Reset
LED	Blue, White, Off
Power Method	PoE+ for up to 2.5 Gbps, PoE++ for up to 10 Gbps
Power Supply	PoE+ or PoE++ Enabled Network Switch, or 48V, 1.25A PoE Adapter (Optional)
Supported Voltage Range	42.5-57V DC
Max. Power Consumption	Max: 30 W for POE+, 35 W for POE++, 12 W Typical
MIMO	6 GHz: 2x2, UL MU-MIMO, DL MU-OFDMA 5 GHz: 4x4, DL/UL MU-MIMO, DL/UL MU-OFDMA 2.4 GHz: 2x2, UL MU-MIMO, DL MU-OFDMA Explicit TX Beam-Forming
Throughput Rate	2.4 GHz: Up to 649 Mbps, 5 GHz: Up to 8.6 Gbps, 6 GHz: Up to 5.8 Gbps
Antenna Gain	2.4 GHz: 4 dBi, 5 GHz: 4.75 dBi, 6 GHz: 4.5 dBi

Model: **AP7-Pro**	
Mounting	Wall, ceiling, drop-ceiling, table top
Operating Temperature	-30 to 50° C (-22 to 122° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, UK, FCC, IC

Software	
WiFi Standards	802.11a/b/g/n/ac/ax/be (WiFi 4/WiFi 5/WiFi 6/WiFi 7)
Roaming	802.11r/k/v
Wireless Security	2.4 GHz, 5 GHz: WPA2-Personal (PSK), WPA3-Personal (SAE), WPA-Enterprise (WPA2/WPA3) 6 GHZ: WPA3 - Personal (SAE), WPA3-Enterprise (192 bit)
SSID	48 (16 per Radio), Unlimited per Site
Ability to Limit Clients per SSID	Yes
VLAN	802.1Q
Advanced QoS	802.11e
Guest Traffic Isolation	Supported
Max Concurrent User	500+
Zero Wait DFS	Yes
Intelligent WiFi Scheduling	Yes
Hotspot Functionality	Yes
Scalable	Yes
Seamless Per Client Settings	VLAN, Device Type, Rate Limit, Hotspot/Schedule Exception
AltaPass	Yes*

Software	
DPI	Yes
Content Filtering	Yes
Customizable Dashboard	Yes
Status Snapshots	Yes

- Password-based assignment is not supported currently in 6 GHz due to industry standard limitations; however per-MAC assignment is supported in 6 GHz.

Max Physical Transmit Power	
Max. Transmit Power	2.4 / 5 GHz: 30 dBm EIRP, 6 GHz: 27 dBm EIRP

The frequency and the maximum transmitted power in EU/UK are listed below:

ETSI/CE Transmit Power Limits	
Channel Frequency (MHz)	Max. RF Output Power
2412 - 2472	20 dBm (EIRP)
2402 - 2480 (Bluetooth)	7.40 dBm (EIRP)
5180 - 5240	23 dBm (EIRP)
5260 - 5320	23 dBm (EIRP)
5500 - 5700	30 dBm (EIRP)
5955 - 6415	23 dBm (EIRP)

For CE/UK, the device is restricted to indoor use only when operating in the 5150-5350 MHz, 5945-6425 MHz frequency range.

Compliance

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.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925-6.425 GHz band.

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

FCC Caution

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 is restricted to indoor use.

Non-Modification Statement

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

FCC Radiation Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 29 cm between the radiator and your body.

CAN ICES-003(B) / NMB-003(B)

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.

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.

ISED Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 29 cm between the radiator & your body.

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 29 cm de distance entre la source de rayonnement et votre corps.

The transmitter module may not be co-located with any other transmitter or antenna.

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

The Country Code Selection feature is disabled for products marketed in the US/Canada.

For product 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.

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

Les appareils ne doivent pas être utilisés pour contrôler ou communiquer avec des systèmes d'aéronefs sans pilote.

Devices shall not be used on oil platforms.

Les appareils ne doivent pas être utilisés sur les plates-formes pétrolières.

Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).

Les appareils ne doivent pas être utilisés sur les avions, à l'exception des points d'accès intérieure à faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients de faible puissance et des dispositifs de très faible puissance fonctionnant dans la bande 5925-6425 MHz, qui peut être utilisée sur de grands avions tel que défini dans la réglementation de l'aviation canadienne, tout en volant au-dessus de 3 048 mètres (10 000 pieds).

Devices shall not be used on automobiles.

Les appareils ne doivent pas être utilisés sur les automobiles.

Devices shall not be used on trains.

Les appareils ne doivent pas être utilisés dans les trains.

Devices shall not be used on maritime vessels.

Les appareils ne doivent pas être utilisés sur les navires maritimes.

Operation shall be limited to indoor use only.

Le fonctionnement doit être limité à une utilisation en intérieur uniquement.

CE Marking

The CE marking on this product represents the product is in compliance with all directives that are applicable to it.

This equipment complies with EU/UK radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 29 cm between the radiator & your body.

Country List

AT	BE	BG	CY	CZ	DE	DK	EE	EL
ES	FI	FR	HR	HU	IE	IT	LV	LT
LU	MT	NL	PL	PT	RO	SE	SI	SK

UK(NI)

EU/UK Declaration of Conformity

Hereby, Alta Labs, declares that this device conforms with the essential requirements and provisions of Directives 2014/53/EU, 2014/30/EU and 2014/35/EU. To see the full EU declaration Conformity information, please see **www.alta.inc/regulatory**

Hereby, Alta Networks, LLC declares that the radio equipment type AP7-Pro is in compliance with Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address: **www.alta.inc/regulatory**

ALTA
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Community Forum

forum.alta.inc

Technical Support

help.alta.inc



All specifications are subject to change without notice.
Alta Labs products are sold with a limited warranty: alta.inc/warranty

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