

pingNAV

UAVIONIX PINGNAV GNSS with Baro QUICK START GUIDE

Quick Start Guide

The uAvionix PingNAV provides a high integrity position source for use with Ping ADS-B transceivers. PingNAV can be programmed with a static ICAO and call sign using the Ping App.

1. Install

- 2. Connect
- **3.** Configure
- 4. Commit
- 5. Mount
- 6. Connect



Install the uAvionix Ping App from either the Apple App Store or Google Play. Search for **uAvionix Ping installer** or use the QR codes below.









Connect the **ping programmer** to **pingNAV** using the provided 5 pin cable.

Connect **ping programmer** to a power source using a Micro-USB cable.



Join your mobile device to the wireless network named **Ping-XXXX**, where XXXX is a random string i.e. Ping-6AFB.

The WPA passphrase is **uavionix**.



3

Launch the **uAvionix Ping** application and complete the fields as required for your device/aircraft.

Selected Device Type: Choose the device pingNav will be connected to.

Control: This setting controls device transmit functions. The selections available will depend on the device type selected.

Transceiver selections include:

TX enabled: Transmit ADS-B message at one second intervals, receive is also enabled.

Receive: Receive only, transmit disabled.

Standby: ADS-B in/out disabled.

ICAO: Enter your ICAO Number in Hexidecimal format. If your identifier is in octal (eight digits) format you must convert it prior to entry.

Call Sign: Enter the tail number of the aircraft. (A-Z 0-9)

Emitter: This should be set to your aircraft type. UAV is the selection for unmanned vehicles.

V_{so}: Enter airspeed in knots that the aircraft typically flies at after takeoff. Default value (1)

Aircraft Length: Select the length value in meters that matches your aircraft.

Aircraft Width: Select the width value in meters that matches your aircraft.

GPS Antenna Offsets: Choose the lateral and longitudinal offset in meters from GPS to the nose of your aircraft.







After completing all data fields click the **Update** button.

You should receive the **Device Configured** message, tap **OK.**

Disconnect power from **ping programmer**.

Disconnect pingNAV from ping programmer.

PLEASE CONNECT TO PING-XXXX WI-FI NETWORK IN SETTINGS
Selected Device Type:
ping2020
Control:
UAT TX enabled
ICAO Number (bey)
Updated Device Configured
ОК
V _{S0} (knots):
1
Aircraft Length (meters):
L ≤ 15 ▼
Aircraft Width (meters):
W ≤ 23 ▼
GPS Antenna Offset, Lateral from roll axis (meters):
0
GPS Antenna Offset, Longitudinal aft from
aircraft nose (meters):
0
Update





Mount pingNav using the provided double-sided adhesive.

Remove both top and bottom backing from provided double sided tape. Adhere double sided tape to the underside of pingNav in the correct orientation so the barometer and 5-pin connector are not blocked by the adhesive.



Connect one end of provided **JST ZHR-5 cable** to **pingNav**. Route cable through channel in adhesive. **Mount pingNav** to a clean, smooth surface. The Ping logo on the top of the pingNav should have an unobstructed view of the sky.



Connect the 5-pin cable from pingNAV to ping2020. See ping2020 Quick Start Guide for ping2020 installation.



PingNAV should be installed in a location that meets the following recommendations:

- Mounting location should provide pingNAV a clear view of the sky and is mounted as far as possible from motors and ESCs.
- Provide a minimum of 10cm between pingNAV and DC power or batteries.
- Do not place pingNAV beneath carbon fiber vehicle canopies.