



ping20S

uAvionix Ping20S Transponder

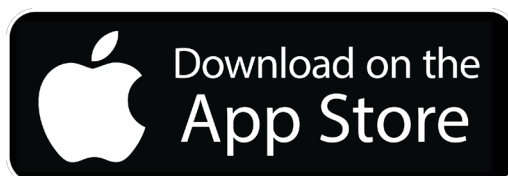
QUICK START GUIDE

Install

1

For complete installation instructions refer to the ping20S user manual.

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



Connect the **pingUSB** to **FYXnav** using the provided **JST ZHR-5 cable**.

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





Join

2

Join your mobile device to the wireless network named **Ping-XXXX** using the procedure for your device. The WPA passphrase is **uavionix**. The process for iOS is shown below.

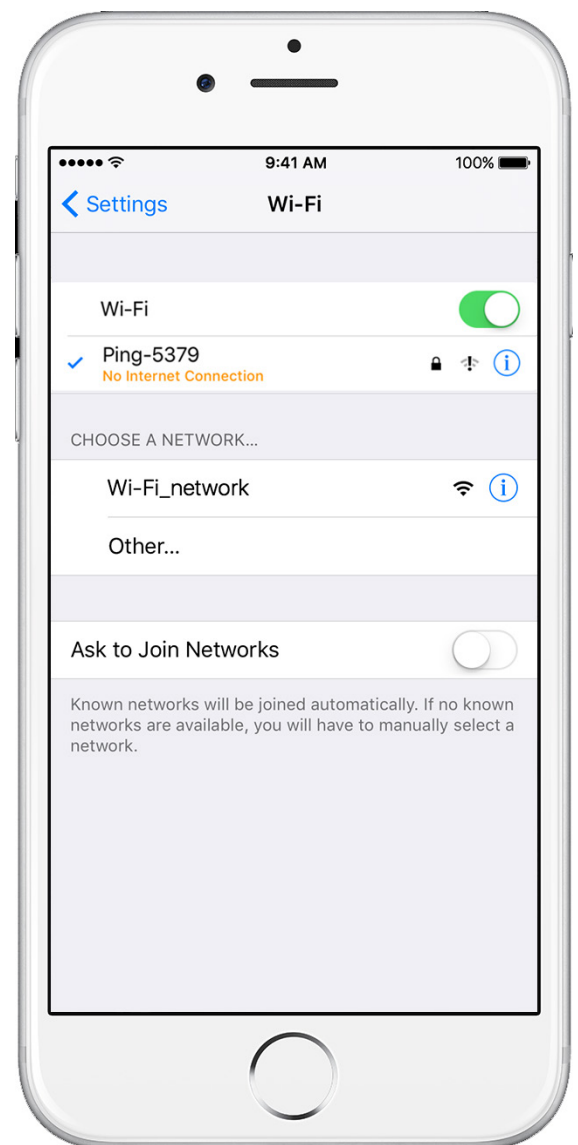
Go to **Settings > Wi-Fi**, and verify Wi-Fi is turned on.

Tap the SSID **Ping-XXXX**, where XXXX is a random string i.e. Ping-5379.

Enter **uavionix** as the WPA password for the secure Wi-Fi network, then tap **Join**

Note: *No Internet Connection* message is normal.

After device is connected proceed to step 3.





Configure

3

Launch the **uAvionix Ping** application and tap **Configuration**. Complete all fields as appropriate for your aircraft.

Selected Device Type: Choose **ping200s/20s**.

Control: Select transmit a transmit type.

Standby: Transponder will not respond to interrogation.

ON: Replies to interrogation with 4 digit squawk code.

ALT: Replies to interrogation with altitude information.

1090ES: ADS-B transmit is always enabled when a 6 digit ICAO code is entered.

ICAO: Enter your ICAO Number in Hexadecimal 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.

VFR Code: Enter the default VFR code for your country. The United States code is 1200.

Maximum aircraft speed: Select your aircraft maximum speed.

ADS-B In Capability: Select aircraft ADS-B receive capability. If you do not have a separate ADS-B receiver this should be set to None.

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

GPS Offsets: GPS location relative to the roll axis and nose of the aircraft.

COM1 Rate: Sets the serial port communication rate. This is only necessary for serial control of the transponder.

The screenshot shows the 'Configuration' screen of the uAvionix Ping application. At the top, there is a 'ping' logo and a green bar indicating 'CONNECTED TO DEVICE'. Below this are two tabs: 'Configuration' (selected) and 'Monitor'. The settings are as follows:

- Selected Device Type:** ping200S/20S
- Default Control:** Alt
- ICAO Number (hex):** [Empty field]
- Call Sign:** [Empty field]
- Flight Plan ID:** [Empty field]
- Emitter Category:** UAV
- VFR Code:** 1200
- Maximum aircraft speed (TCAS):** Not available
- ADS-B In Capability:** None
- 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
- COM1 Rate:** 38400

An 'Update' button is located at the bottom of the screen.



Update

4

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

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

Tap **Monitor**.

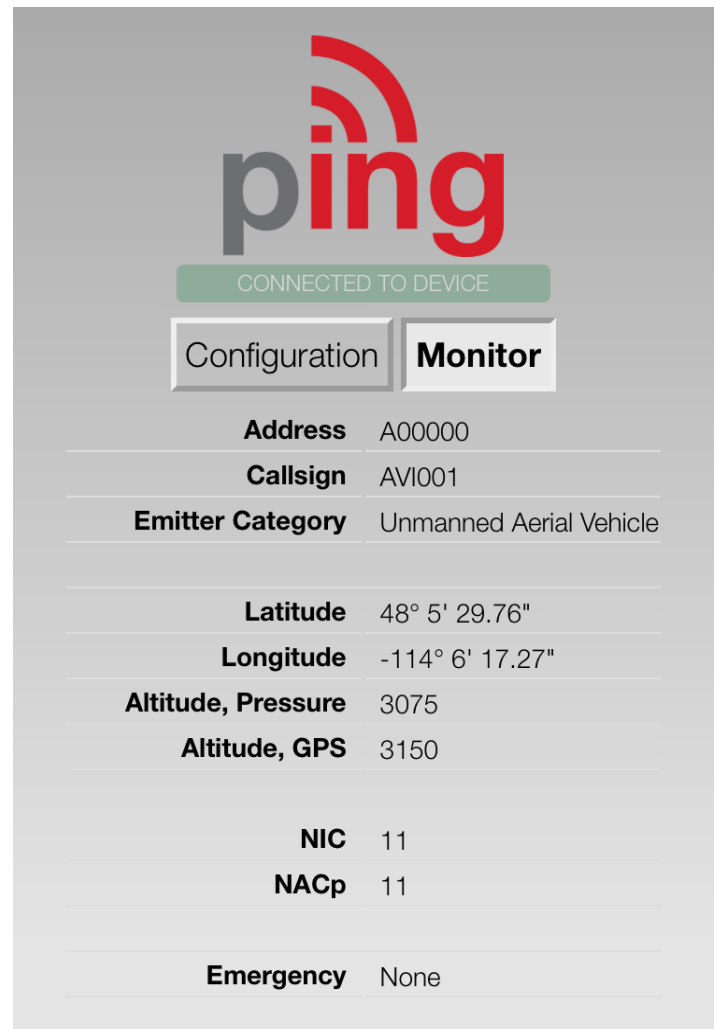
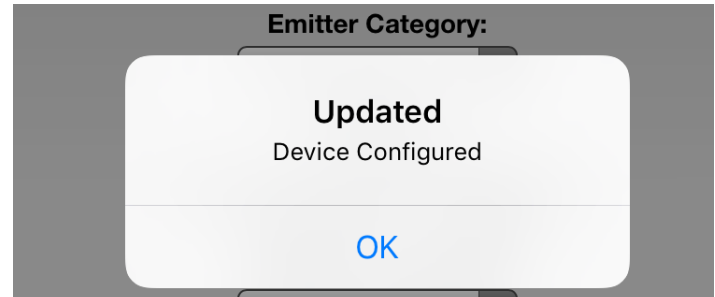
Verify all fields are correct for your aircraft.

The monitor fields will only populate when FYXNav has a GPS fix. A GPS fix is indicated by a flashing red LED.

A fix is not necessary for programming but is required to monitor the current configuration.

Disconnect power from **pingUSB**.

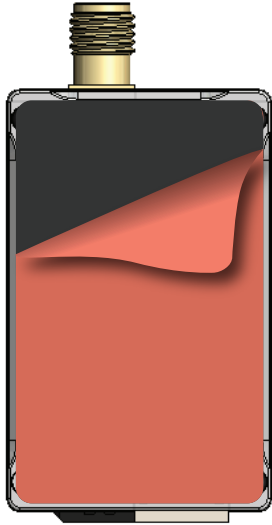
Disconnect **FYXnav** from **pingUSB**.



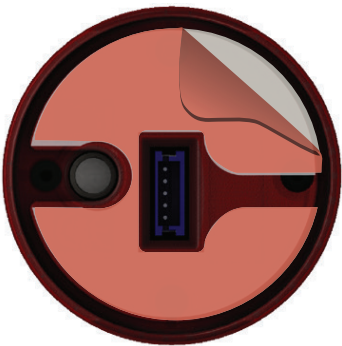


Mount

5



Mount ping20S to a suitable flat surface using the provided **double-sided mounting tape**. Affix mounting tape to ping20S and attach the transponder to the aircraft.



Mount FYXnav 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 FYXnav in the correct orientation so the barometer and 5-pin connector are not blocked by the adhesive.

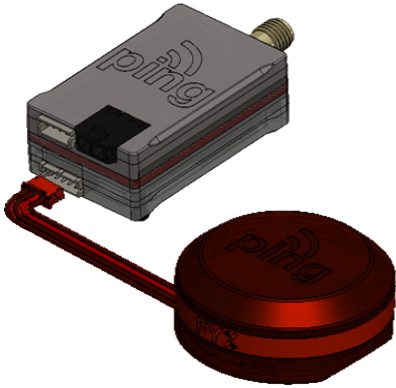


Connect the **JST ZHR-5 cable** to the 5 pin port on the bottom of **FYXnav**. Route cable through channel in adhesive. **Mount FYXnav** to a clean, smooth surface. The Ping logo on the top of the FYXNav should have an unobstructed view of the sky.



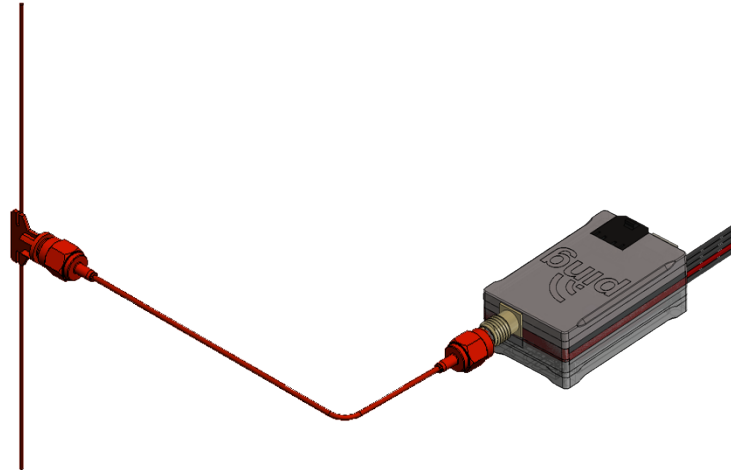
Connect

6

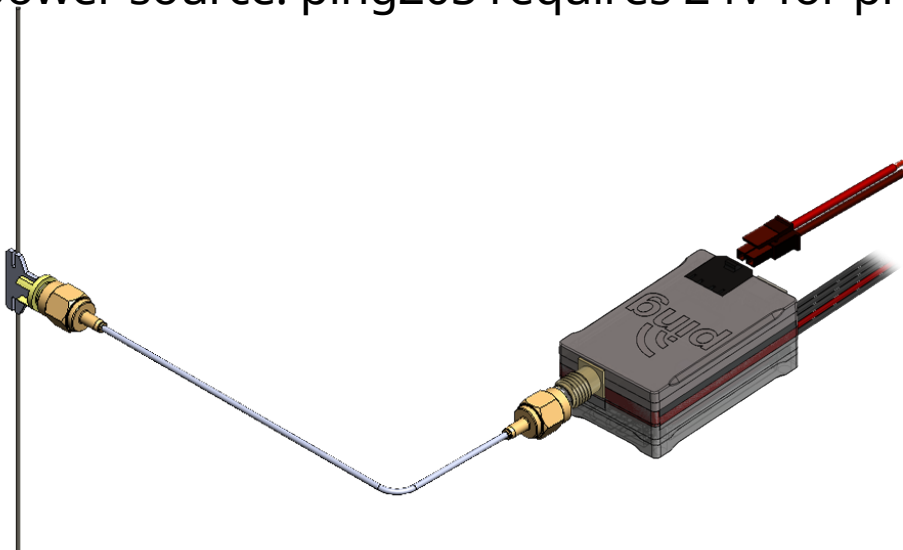


Connect remaining **5 pin** connector from **FYXNav** to **ping20S**.

Mount and **connect** the transponder **antenna** to **ping20S** using supplied cable. The antenna should be mounted in a vertical orientation.



Connect power harness to supplied battery or appropriate aircraft power source. ping20S requires 24V for proper operation.



For additional support: uavionix.com/support