Portable Pilot Solutions

AIS to iPhone™ Wi-Fi Interface User Guide

Model: PPS-4-iP

Congratulations on your purchase of the PORTABLE PILOT SOLUTIONS™ AIS Pilot Plug to iPhone™ / iPad™ Wi-Fi Interface!

Please read these instructions carefully before you operate your new AIS Pilot Plug Interface.

WARNING!

This electronic device is not designed for use near nor in contact with liquids of any kind. It should be used only indoors or in sheltered spaces where it will remain dry.

iPhone™ / iPad™ Wi-Fi Network Setup

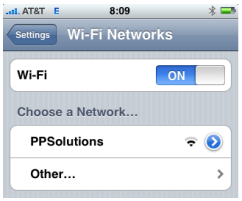
Your Portable Pilot Solutions AIS Pilot Plug to iPhone™ / iPad™ Wi-Fi Interface has been pre-configured to work with the APPLE iPhone™ / iPad™ and iNavx™ charting application. However, prior to first using your Portable Pilot Solutions AIS Pilot Plug to iP Wi-Fi Interface, you will need to configure the Wi-Fi client in your iPhone™ / iPad™. **Please follow these steps closely**:

*The Wi-Fi unit in this AIS Interface does not require the use of a password.

1. Plug in the AC Power Adapter of your AIS Pilot Plug to iP Wi-Fi Interface. Any voltage from 100 VAC to 240 VAC can be used. Use one of the plug adapters to match the outlet socket you have. (It is not necessary to be plugged into an AIS Pilot Plug at this time.)

2. On the **HOME** screen, tap the **Settings** icon.

3. From **Settings** go to **Wi-Fi**.

4. Turn Wi-Fi **ON** and wait a few seconds as the iPhone™ / iPad™ detects networks in range. The network **PPSolutions** should appear. 

5. If it doesn't, select **Other…** and enter the name **PPSolutions**. (Make certain to enter this name EXACTLY as shown with all capitalizations.)

6. Once your iPhone™ / iPad™ has detected the **PPSolutions** network, tap the right arrow to enter the Network Setup Screen.

7. Under **IP Address**, tap the **Static** tab and enter the following:

   IP Address: **169.254.243.2**

   Subnet Mask: **255.255.0.0**

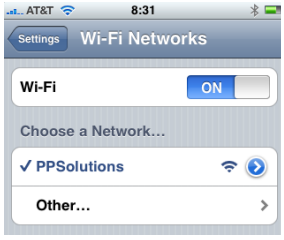
   iPhone

iPad

   Leave "Router", "DNS" and "Search Domains" blank, and "HTTP Proxy **OFF**.

8. Tap Wi-Fi Networks to return to the main Wi-Fi Networks Screen.

9. Tap the **PPSolutions** name to join the network. A check mark should appear next to **PPSolutions**.



Your setup of the iPhone™ / iPad™ AIS Wi-Fi network is now complete and you can return to your **HOME** screen to finish the TCP/IP setup in iNavX™.

Once you've joined a Wi-Fi network manually like this, the iPhone™ / iPad™ automatically joins it whenever the network is in range. If more than one previously used network is in range, the iPhone™ joins the last one used.

When the iPhone™ / iPad™ is joined to a Wi-Fi network, the Wi-Fi icon in the status bar at the top of the screen shows signal strength. The more bars you see, the stronger the signal.

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iNavX™ TCP/IP Setup

1. Make sure the latest version (3.1.1 or later) of iNavX™ is installed on your iPhone™ / iPad™.

2. Connect your PPS AIS to iP Wi-Fi Interface to an AIS Pilot Plug and plug in the power supply to an AC power outlet (100 VAC to 240 VAC).

3. Using the switchbox LED, confirm the presence of AIS data in the correct polarity. (Please see the Switchbox and LED Use notes that follow the "Using iNavX™…" section for more details.)

4. Open iNavX™.

5. From the main iNavX™ setup screen, tap **TCP/IP NMEA Client**.

6. Enter the Host IP Address and Port. The IP Address for your device is on a label affixed to the top of the Digi™ Wi-Fi device. (For this illustration, we've used IP Address 169.254.243.20. Your IP Address may differ.) The Port # will always be **2001**.

7. Slide the Link: tab to **ON**. It may be necessary to exit iNavX™ and re-enter the **TCP/IP NMEA Client** screen in order to get the Link tab to stay **ON**.

8. Some versions of iNavX have a Re-Connect Upon Unlock tab. If your version has this tab, set it to **ON** and tap the **Save** tab. iNavX™ will return to the main setup screen. If your version is missing the "Re-Connect" tab, you can safely skip this step.

9. Follow the iNavX™ instructions to use the application.

Using iNavx™ With The PPS AIS Interface

With the iPhone™ and iNavX™ configured as described above, iNavX™ should automatically connect to the AIS Wi-Fi Interface every time you start iNavX™. If it does not, confirm the iPhone's / iPad's Wi-Fi is **ON** and you are connected to the *PPSolutions* Network. Then go to the **TCP/IP NMEA Client** screen in iNavX™ and slide the Link tab to ON and tap Save. The TCP/IP connection should also automatically re-new and connect whenever the iPhone™ / iPad™ exits sleep mode and directly enters iNavX™. If the TCP/IP Connection is lost, go to the **TCP/IP NMEA Client** screen and slide the Link tab to ON and tap Save.

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Switchbox and LED Use

A properly configured AIS Pilot Plug should output AIS data at a baud rate of 38,400 bps on Pilot Plug terminals #1 and #4. The two switches on the PPS-4-iP can be used to correct the most commonly seen mis-wirings: reversed Tx-/Tx+, reversed Tx/Rx pairs, and reversed Rx- /Rx+.

The LED on the switchbox will indicate data is coming from the AIS Pilot Plug as follows:

GREEN: Data is present with the correct polarity.

RED: Data is present with the wrong polarity. Try switching the position of the +/- switch.

(It is normal for the LED to periodically flicker with the color opposite the "steady" color indicated.)

No color in the switchbox LED means no data is present. Try switching the position of the Tx/Rx switch.

The Wi-Fi Interface should be connected to the AIS Pilot Plug and powered prior to starting the program it will be used with.

Power interruptions in the outlet supplying power to the Wi-Fi rig can cause the connection with the portable device to be lost. If this happens, close and re-start the program you are using with the Wi-Fi device.

The PPS-4-iPhone AIS Interface does **NOT** correct for an incorrect baud rate setting. The user's manual for the AIS should be consulted for the proper setup and settings of the AIS Pilot Plug.

Tips for using the PPS-4-iP with iNavX™ and the iPhone™

When the iPhone™ is networked to the PPS AIS to Wi-Fi Interface, the iPhone's Cellular and Instant Text Messaging Services can be used. Exit iNavX™, go to the Home Screen of the iPhone™, and open the phone or text services application you want to use.

Internet browsing with *Safari™* and e-mail is not possible due to the PPS AIS to Wi-Fi Interface network occupying the iPhone's network services. If you wish to use the Internet, first turn off the PPS AIS to Wi-Fi Interface connection in the Wi-Fi Networks page. (It is sometimes easiest to just unplug the PPS AIS to Wi-Fi adapter's power supply.)

Use of "Tracks" in iNavX™ can disrupt the smooth resumption of the TCP/IP connection in iNavX when the iPhone™ is brought out of sleep mode. It is recommended that the "Show Tracks" tab be in the **OFF** position whenever iNavX™ is used with sleep mode.

Placing the iPhone in AIRPLANE Mode can improve the resumption of WiFi connectivity between the iPhone and iNavX™.

Warranty

Portable Pilot Solutions LLC will, at its expense repair or replace any AIS Interface that is defective for a period of six (6) months from the date of the buyer's receipt of the product, subject to the following exceptions and limitations:

- The decision to repair or replace an AIS Interface, or component of an AIS Interface, will be made solely by PPS.
- Devices damaged due to the use of a power supply other than the one provided with the equipment will not be covered by this warranty.
- Opening the switchbox or intentionally breaking the tamper seal will void the warranty.
- Disconnecting the Wi-Fi device from the switchbox will void the warranty.
- Disassembling the Pilot Plug fitting or the Wi-Fi device's case will void the warranty.
- Using the device outdoors or exposing it to liquids will void the warranty.
- Changing the Wi-Fi device's DIP switch settings will void the warranty.
- Re-programming, attempting to re-program, or copying the Wi-Fi device's settings will void the warranty.
- This warranty does not cover damage due to external causes, including accident, fire, theft, abuse, lightning, problems with electrical power, water or salt-water damage.

For products needing warranty service, please e-mail Portable Pilot Solutions at info@pilotplug.com for shipping instructions. Shipping and insurance fees of products returned from buyers to PPS shall be paid by the buyer. Shipping and insurance fees of products repaired or replaced under warranty and sent from PPS to buyers shall be paid by PPS. Standard ground shipping will be used by PPS.

Special Warning To Users Of PPS Products

The accuracy of the navigational information (such as position, course, speed, etc.) for own ship and target vessels depends upon the accuracy of the sensors used, environmental and operational factors which may degrade the position or AIS information, and the quality of the installation of the equipment. Further, the accuracy of static information and voyage related data depends upon the accuracy with which it is entered and the frequency of its update. AIS users must bear in mind that a third party enters the static and voyage information received and should also take that into account when assessing the usability of AIS information.

Users of AIS information should be skeptical of AIS information received and should always confirm by all other means possible the accuracy of the AIS information.

Limitation of Liability

Portable Pilot Solutions LLC makes no warranties, express or implied, and shall not by virtue of having delivered the AIS Interface be deemed to have made any representations or warranties as to the merchantability, suitability for a particular use, design of the AIS Interface, or as to the quality of the materials or workmanship of the AIS Interface. In no event shall Portable Pilot Solutions LLC be liable for any consequential, incidental, or other damages whatsoever arising out of the use of or inability to use the AIS Interface. Use of the AIS Interface constitutes acceptance of these terms and conditions.

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