Aviation Companion 422.

Connects your aviation radio or EFIS to your iPad/Android device.
Works with SkyDemon and other apps.

- Easy to use.
- Small, stable, robust.
- Potted unit that withstands humid environments.
- Powered from aircraft, any voltage between 4V and 30V is good.
- Protected against reverse voltage.
- Nothing to configure, just use it.
- No battery to charge or replace.
- RS422 levels to radio.

Size: 44 x 22 x11 mm
Weight unit: 15 g
Weight with cable: 30 g
Own current consumption: 10 mA
Cable length: 1 m
Baud rate: 9600 baud *)
Device name: UTRONIX_AC_xxxx *)

For Becker AR620x with serial no > 3000. And possibly other radios.

*) Configurable

In package:

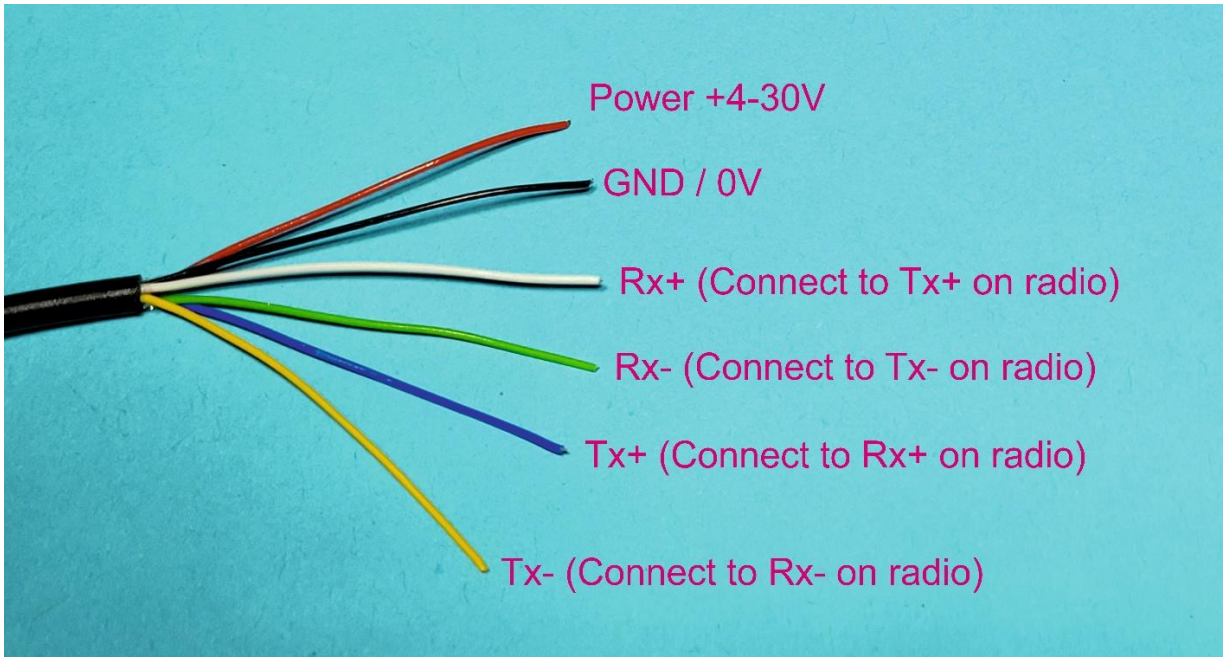
1 pcs Aviation Companion device.
2 pcs Velcro
1 pcs Heat shrink tubing
1 pcs Users guide

Optionally:
Connector mounted on the cable for Becker AR620x. Power wire still to be connected by customer.

Aviation Companion 422 have a 1-meter cable with six wires.

The wires have to be connected (soldered/crimped) to the radio/AP connector. Different radios have different connectors.
No connector is delivered with Aviation Companion.

The cable to the radio may be cut to suitable length.



Tx from radio shall be connected to Rx on Aviation Companion 422 and vice versa.

LED indicator.

A green LED flashes slowly when Aviation Companion searches for device. When connected the light is steady. During communication the light flashes rapidly.
If you do not want light, it can be covered with a small piece of black tape or a drop of black paint.

Configuration.

Aviation Companion comes configurated with 9600 baud and the name UTRONIX_AC_xxxx, where xxxx is the last digits of the serial number (MAC-address).

Normally no configuration is required. If you need to change baud rate then change it in the radio so you only have to configure one device.

If you really want to change baud rate or device name it can be done via Bluetooth.

You will need a Bluetooth app like the free “LightBlue” (available for both Apple and Android).

1. Start the app and connect to the Aviation Companion by selecting the name “UTRONIX_AC_xxxx”.
2. Select “Config”.
3. Select “Subscribe”.
4. In the upper right corner select “HEX”. Choose UTF-8 String and select “Save”.
5. Select “Write”.
6. To set baud rate write “baud=9600” and press enter.
   (Or 1200/2400/4800/19200/38400/57600/115200/230400)

To set a new name write “name=My name” and press enter.
To restore factory name write “name=factory”.

Aviation Companion will reply with the command if accepted otherwise with “error”. Aviation Companion can only be connected to one device at a time.

Connections on Becker AR620x:

It is only possible connect Aviation Companion if the radio not already use a remote control unit. (RT6201 with one remote control unit is ok)

AR 620x, have two 25-pin D-sub connectors.
The upper connector has pins and the lower sockets.

The lower is used for communication with Aviation Companion.
The upper is used for headset, PTT and other. It might be possible to connect the red wire for power here or you can find power elsewhere.

Signal	Pin radio	Wire
+14/28V	P1-11/12	Red (+4 – 30V)
GND (0V)	J1-21/22/23	Black
Tx+	J1-7	White (Rx+)
Tx-	J1-14	Green (Rx-)
Rx+	J1-8	Blue (Tx+)
Rx-	J1-15	Yellow (Tx-)

In AR620x configuration you must configurate the radio for “TANDEM”. This makes it listen for data on J1. See installation manual chapter 2.7.

Designed and produced by:

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