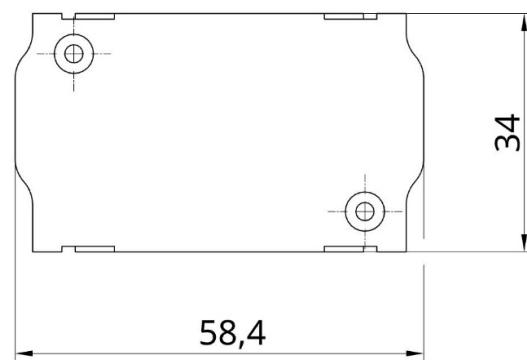


f.u.n.k.e ATR833 - BLE Bluetooth Dual Source Adapter

vfrNav EXPERIMENTAL



The Bluetooth Low Energy adapter (BLE) for a f.u.n.k.e ATR833 VHF transceiver (aviation radio) is compatible with the following devices: **ATR833, ATR833S, ATR833A, ATR833-II, ATR833A-II**.

The adapter was originally developed for connection to the vfrNav navigation software, but is now compatible with a variety of navigation apps that support frequency transmission. It implements the data transfer between the navigation software and the radio hardware (BLE \leftrightarrow RS-232). The adapter simply plugs in between the existing wiring and the radio and is securely held in place on the housing thanks to the Molex Spring Lock system.

No additional power supply is required. The adapter can be operated with 12 V and 24 V onboard voltage. An internal, self-resetting fuse is integrated in the housing. The power supply is protected against reverse polarity and short-circuit proof.

The adapter also works when an EFIS is already connected to the radio.

No additional electrical or mechanical work required!

Important: This is a prototype for experimental use only!



1 Radio Configuration

No further configuration is required on the radio.

2 Connector Pin Assignment

This is an excerpt from the f.u.n.k.e installation manual:

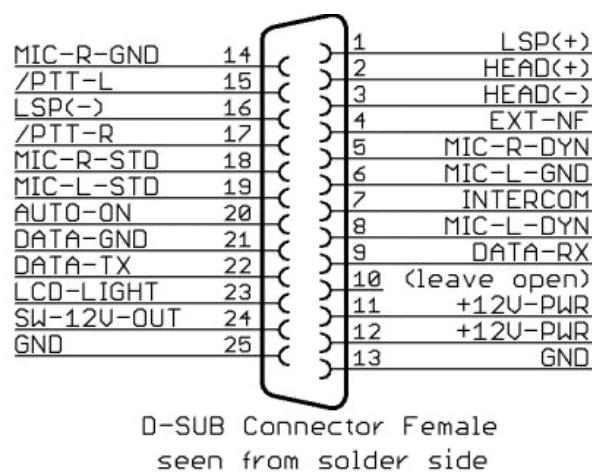


Figure 1: Old version (ATR833)

4.7.2 Connector – Pin Allocation

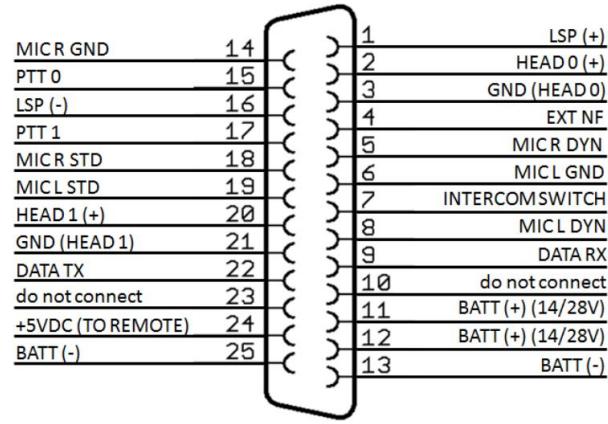


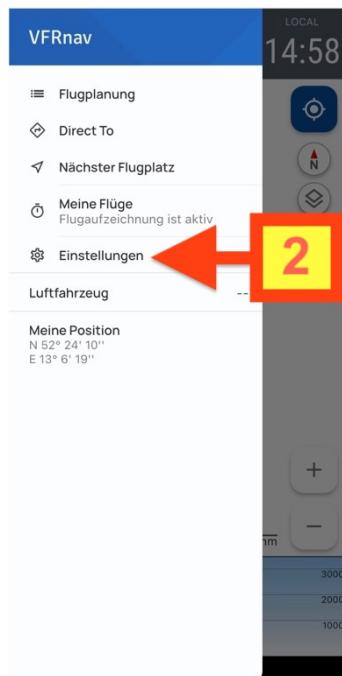
Figure 2: New version (ATR833-II)

| Pin | Names | Functionality |
|-----|-----------------|---|
| 1 | LSP(+) | Output external Loudspeaker Positive |
| 2 | HEAD-0 (+) | Output Headset-Speaker Positive |
| 3 | GND (HEAD-0) | Output Headset-Speaker Negative |
| 4 | EXT-NF | Input external Audio-Signal |
| 5 | MIC R DYN | Input Microphone Right Dynamic |
| 6 | MIC L GND | Input Microphone Left Ground |
| 7 | INTERCOM SWITCH | Intercom Activation Switch (connect to ground for Intercom activation) |
| 8 | MIC L DYN | Input Microphone Left Dynamic |
| 9 | DATA-RX | RS232 Receive (for Remote Control) |

| | | |
|----|----------------|--|
| 10 | do not connect | Pin 10 is used by adapters for device identification |
| 11 | +14 / +28V-PWR | Input Power Supply +12V |
| 12 | +14 / +28V-PWR | Input Power Supply +12V |
| 13 | BATT (-) | Ground Side of Power Supply |
| 14 | MIC R GND | Input Microphone Right Ground |
| 15 | PTT-0 | Push-to-Talk 0 (connect to ground for transmitting) |
| 16 | LSP(-) | Output external Loudspeaker Negative (Not identical to ground!) |
| 17 | PTT-1 | Push-to-Talk 1 (connect to ground for transmitting) |
| 18 | MIC R STD | Input Microphone Right (Headset 1) |
| 19 | MIC L STD | Input Microphone Left (Headset 0) |
| 20 | HEAD 1 (+) | Output 1 Headset-Speaker Positive |
| 21 | GND (HEAD 1) | Output 1 Headset-Speaker Negative |
| 22 | DATA-TX | RS232 TX (for Remote Control) |
| 23 | N/A | do not connect |
| 24 | +5VDC OUT | 5VDC Power Supply for Remote Control |
| 25 | BATT (-) | Ground Side of Power Supply |

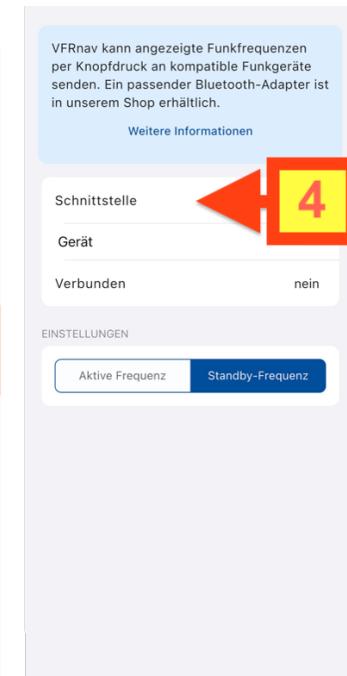
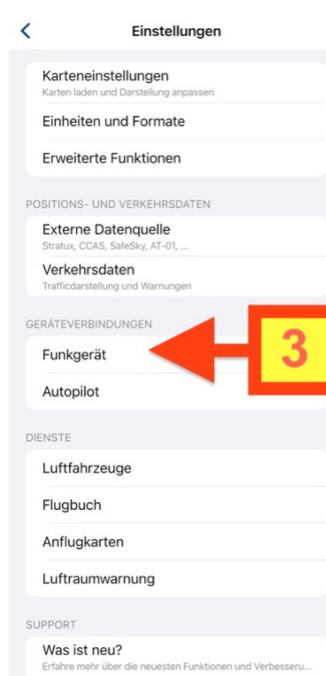
3 Configuration in vfrNav

Important: The adapter is not connected via regular Bluetooth settings. BLE devices are usually not displayed there.



- Switch on aircraft power, turn on the radio.
- Enable Bluetooth on your phone/tablet.
- Start vfrNav.

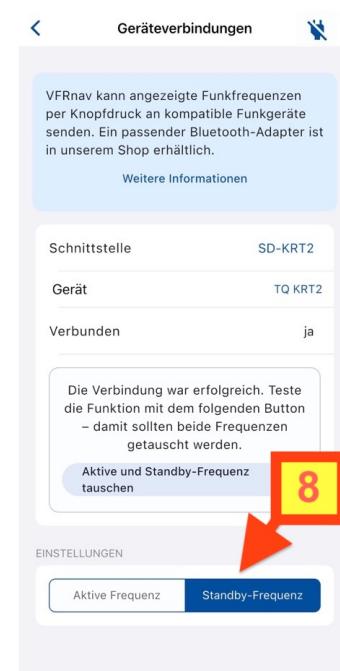
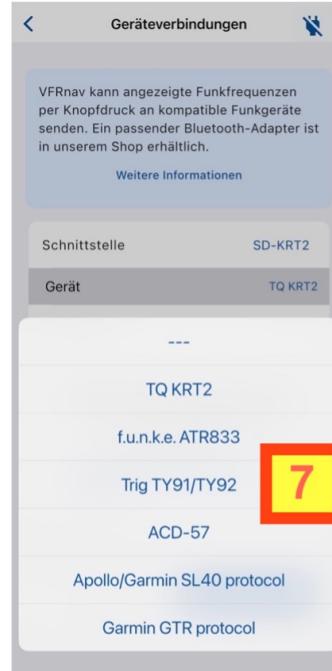
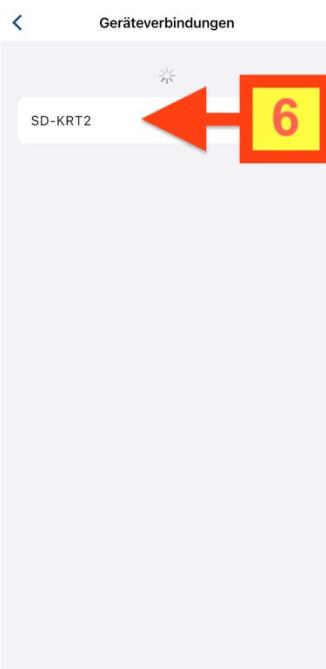
1. Open menu
2. Open settings menu
3. Under Device connections → Radio
4. Select interface





5. Enable Bluetooth if necessary
6. Select the name of the found adapter: **SD-ATR833**
7. If the protocol was not automatically detected, please adjust it under „Gerät“ anpassen.
8. In the connection settings, specify whether the frequency should be transmitted to the radio immediately as active or as standby.

Important Notice: Check under „Verbunden“: It should say „ja“ stehen.



4 Contact

For problems, questions, feedback, or positive responses,
please contact:

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