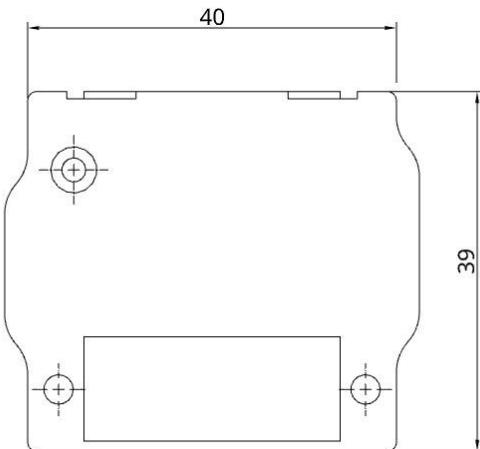


## TQ KRT2 – angled Adapter BLE Bluetooth

### vfrNav EXPERIMENTAL



Angled version of the Bluetooth Low Energy adapter (BLE) for a TQ KRT2 VHF transceiver (aviation radio), designed for installations with limited space behind the radio unit. The adapter is compatible with the following radio models:

- KRT2-S
- KRT2-F
- KRT2-P

The adapter was developed as an interface between a TQ KRT2 and the navigation software vfrNav. It realizes the data transfer conversion between the navigation software (SD) and the radio hardware (BLE  $\leftrightarrow$  RS-232). The adapter is simply plugged between the existing cabling and the radio and holds securely to the housing thanks to the Conec latch system.

No additional power supply is required. The adapter can be operated with 12 V and 24 V onboard voltage. An internal mini-fuse (125 mA) is integrated in the housing.

The power supply is protected against reverse polarity and short-circuit proof. **No further electrical or mechanical work required!**

**Important:** This is a prototype for experimental use only!

## 1 Radio Configuration

No additional configuration is required on the radio unit.

## 2 Connector Pin Assignment

This is an excerpt from the TQ installation manual:

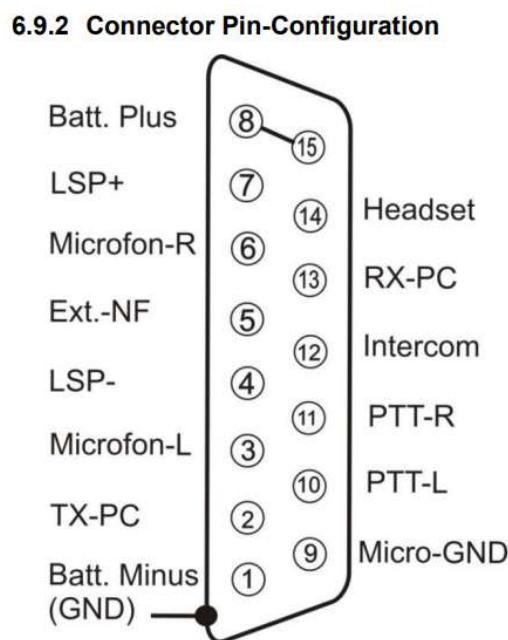


Figure 7: Connector pinout

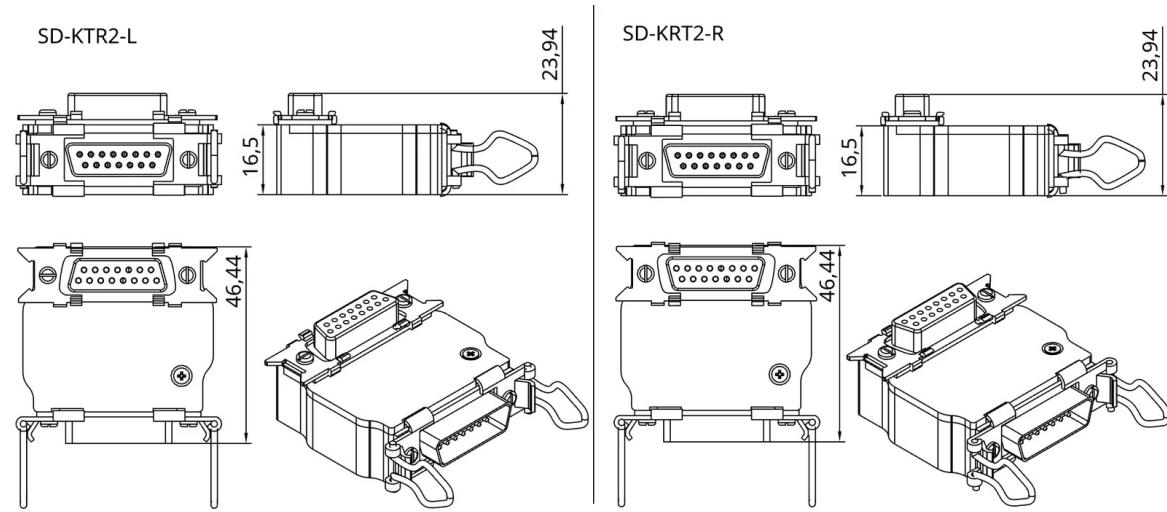
Figure 1: KRT2 Connector Pinout

### 3 Product Variants

The mechanical orientation of the connector differs between the KRT2-S and KRT2-F. This changes the direction in which the adapter is angled. Therefore, please pay attention to the respective radio unit when selecting the product variant (LEFT/RIGHT).



For this reason, there are the product variants **SD-KRT2-A-LEFT** and **SD-KRT2-A-RIGHT**.

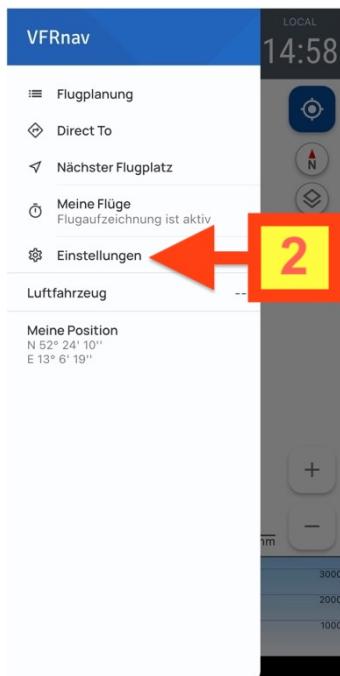


#### 3.1 Orientation of LEFT/RIGHT per Radio Unit

| Device | Desired Orientation | Required Adapter |
|--------|---------------------|------------------|
| KRT2-F | Points upward       | SD-KRT2-A-LEFT   |
| KRT2-F | Points downward     | SD-KRT2-A-RIGHT  |
| KRT2-S | Points downward     | SD-KRT2-A-LEFT   |
| KRT2-S | Points upward       | SD-KRT2-A-RIGHT  |

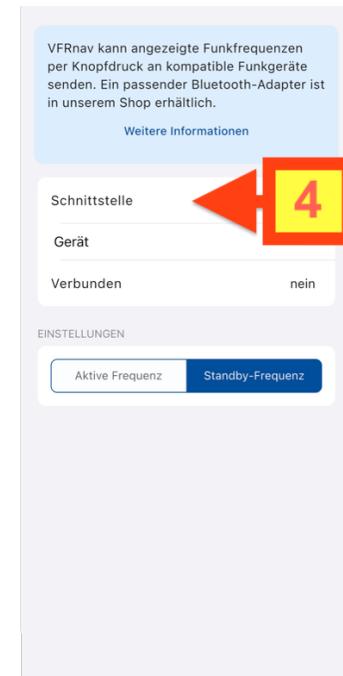
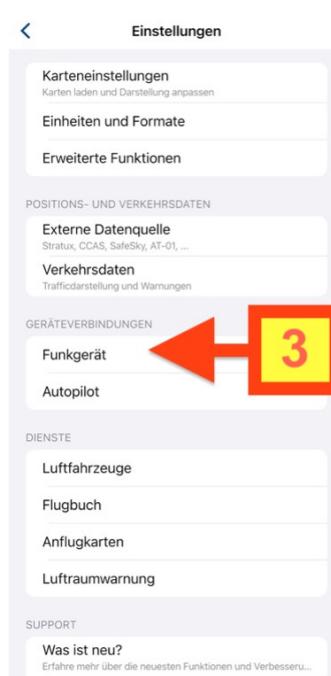
## 4 Configuration in vfrNav

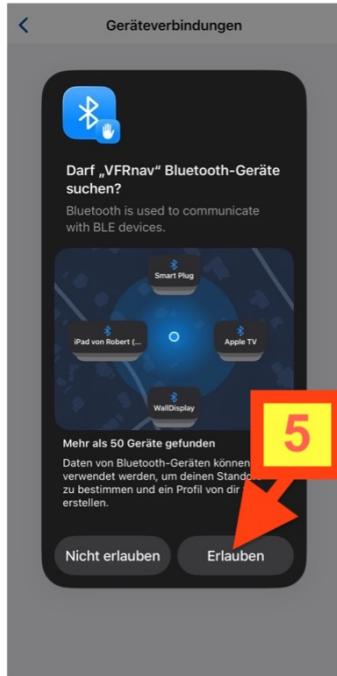
**Important:** The adapter is not connected via regular Bluetooth settings. BLE devices are usually not displayed there.



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

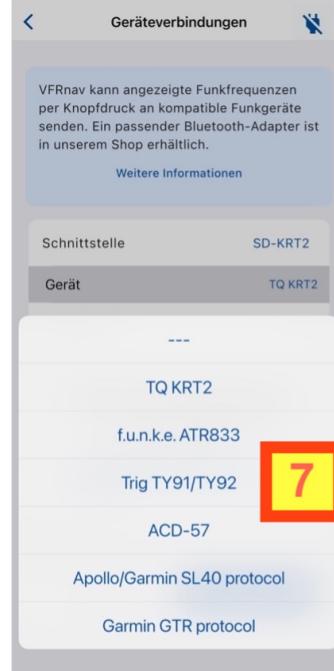
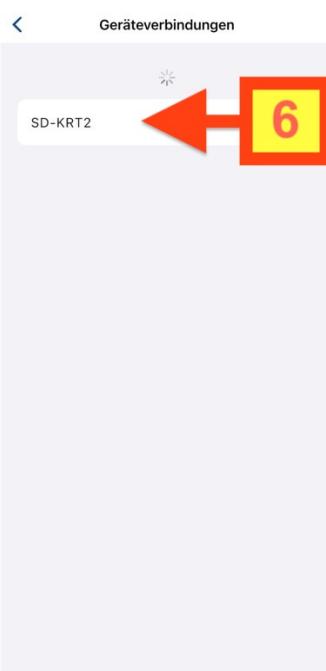
1. Open menu
2. Open settings menu
3. Under Device connections → Radio
4. Select interface





5. Enable Bluetooth if necessary
6. Select the name of the found adapter: **SD-KRT2**
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.



## 5 Contact

For problems, questions, suggestions or even positive feedback, please contact:

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