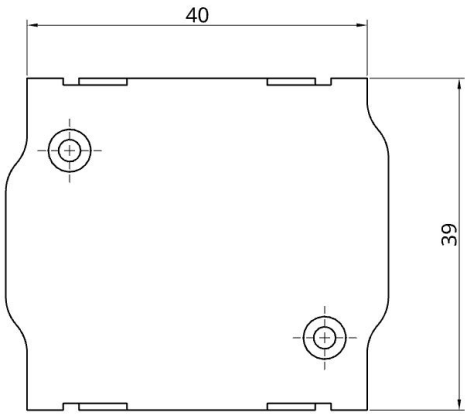
TQ KRT2 DS - BLE Bluetooth Adapter

easyVFR EXPERIMENTAL



Bluetooth Low Energy Adapter (BLE) for a TQ KRT2 VHF transceiver (aviation radio). The adapter is compatible with radios of the following type series:

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

The adapter was developed as an interface for the TQ KRT2 for compatible navigation apps (e.g., easyVFR) and works together with an EFIS. It enables data transfer between the navigation app and the radio hardware (BLE ↔ RS-232). The adapter is simply plugged between the existing wiring and the radio and is held securely to the housing thanks to the Conec latch system.

An additional power supply is not 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 necessary!**

Important: This is a prototype for exclusively experimental use!

1 Radio Configuration

No further configuration of the radio is required.

2 Connector Pin Assignment

This is an excerpt from the TQ installation manual:

Important: Pin 13 of the connector serves as data input from the EFIS.

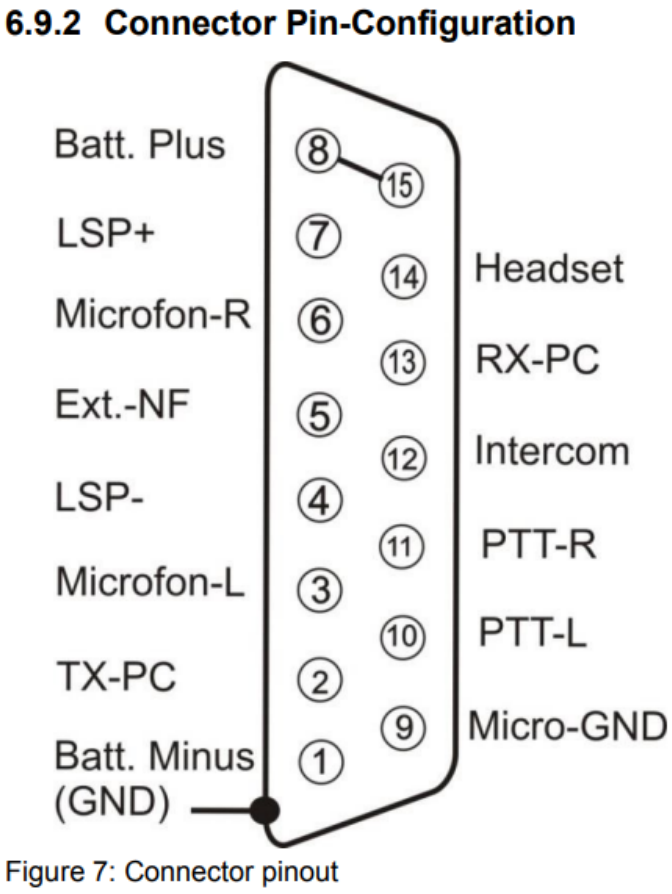


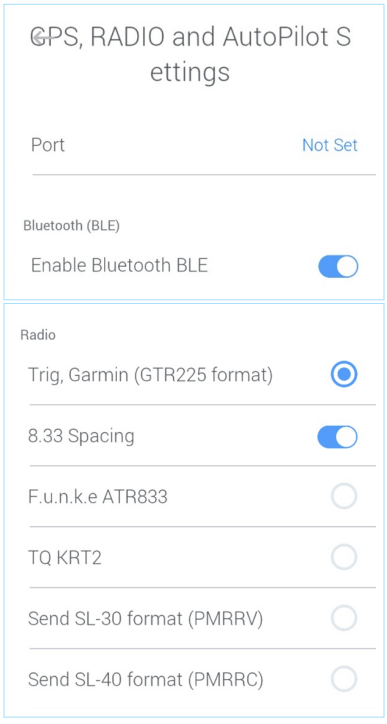
Figure 1: KRT2 DS Connector Pin Assignment

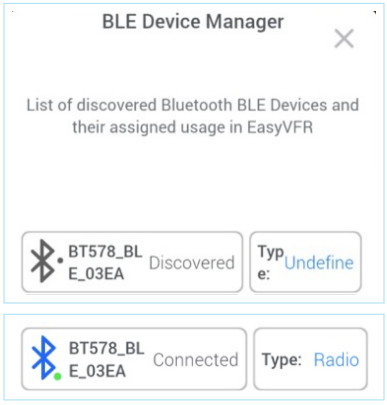
3 Configuration in EasyVFR

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

3.1 Enable Bluetooth and select radio

- Switch on aircraft power, turn on the radio.
- Enable Bluetooth on your phone / tablet.
- Start EasyVFR4.





3.1.1 Enable Bluetooth BLE in EasyVFR

1. Open menu
2. **System** → **GPS, Radio and AutoPilot Settings**
3. Scroll down and activate option **Enable Bluetooth BLE**

3.1.2 Select radio protocol

1. Continue scrolling down to the Radio section
2. Select matching radio/protocol
3. If your device is not listed: test protocols, recommended from top to bottom
   - **GTR225** is the most comprehensive (incl. 8.33 kHz),
   - **SL40/SL30** are older legacy protocols.

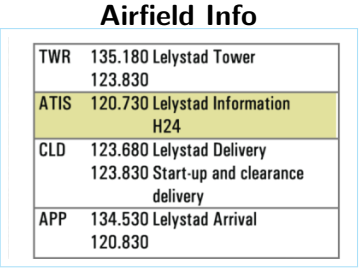
3.1.3 Open BLE device list and assign adapter

1. EasyVFR now continuously scans for BLE devices
2. Menu → **Bluetooth BLE devices**
3. Select the adapter from the list (e.g. **SD-KRT2**)
4. Tap the Type until **Radio** is set (cycle: AutoPilot / GPS/Traffic / Radio / undefined)
5. EasyVFR connects; indicated by "Connected" (incl. Bluetooth icon).

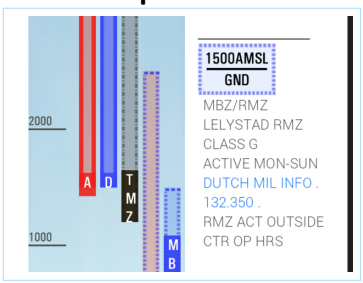
3.1.4 Send frequencies (Remote Tuning)

1. Tap frequency in:

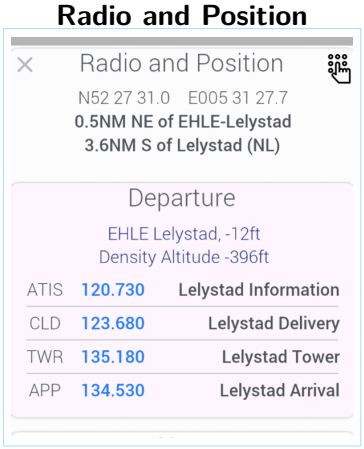
Airfield Info

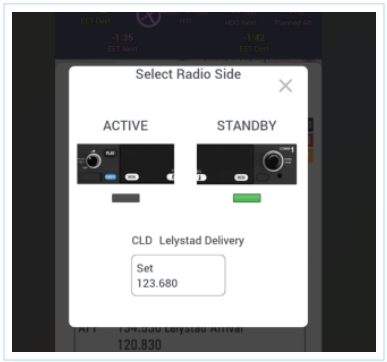


Airspaces Info



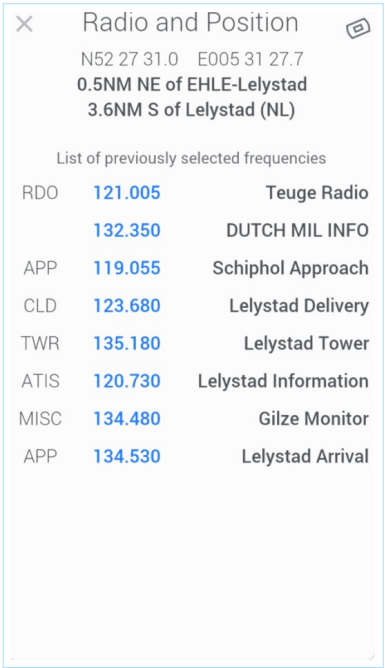
Radio and Position





2. Then select **Active** or **Standby** (depending on the radio, only Standby may be possible) → press **Set**.

3.1.5 Optional control aids (Radio Card)



1. Keypad icon: manual frequency entry
2. Clock icon: recently set frequencies (History)

4 Contact

If you have any questions, problems or feedback, please feel free to contact us:

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