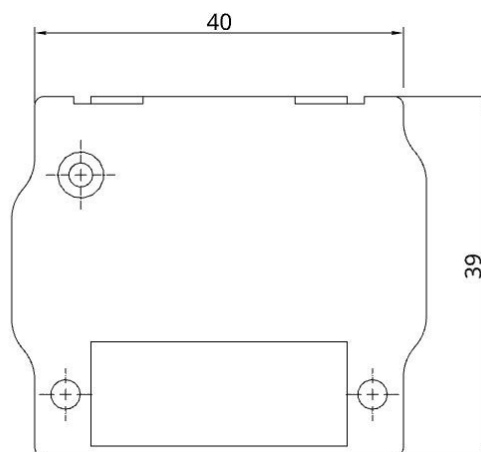# TQ KRT2 – angled Adapter BLE Bluetooth

sky-map 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 sky-map. 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:

6.9.2 Connector Pin-Configuration

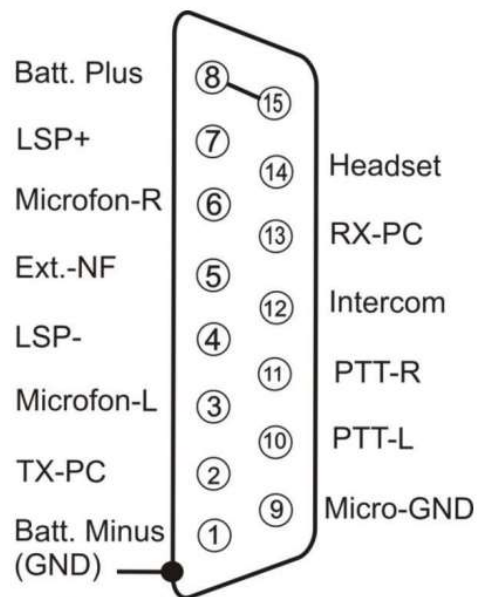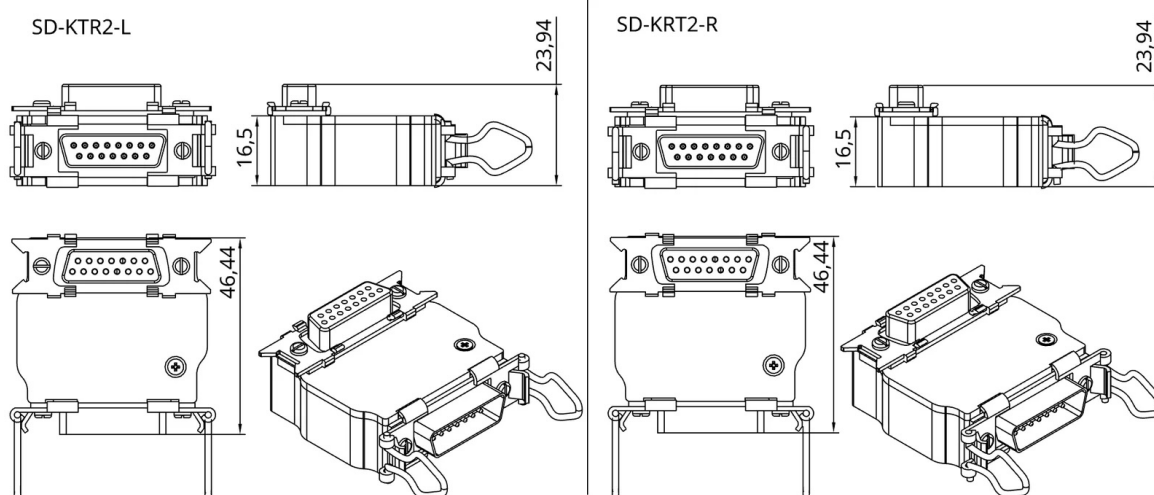| Left side	Pin	Pin	Right side
Batt. Plus	8	15	
LSP+	7	14	Headset
Microfon-R	6	13	RX-PC
Ext.-NF	5	12	Intercom
LSP-	4	11	PTT-R
Microfon-L	3	10	PTT-L
TX-PC	2	9	Micro-GND
Batt. Minus (GND)	1		

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).

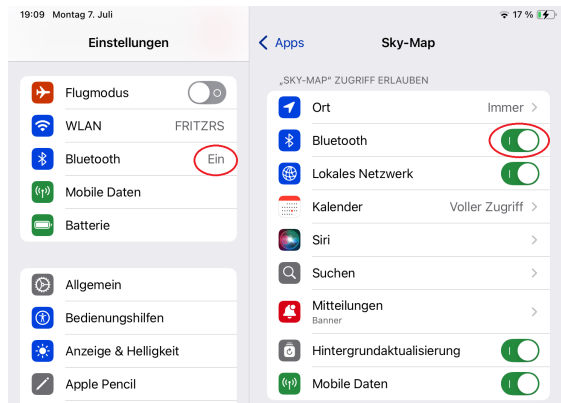For this reason, there are the product variants **SD-KRT2-A-LEFT** and **SD-KRT2-A-RIGHT**.

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

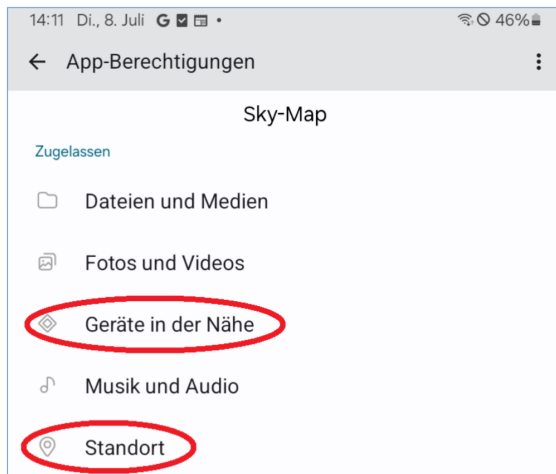# 4 Configuration in sky-map

4.1 Prerequisites and Configuration in iOS

iOS Settings:

1. Bluetooth must be enabled in the iOS settings.

2. Under *Apps/sky-map*, access to Bluetooth must be granted.
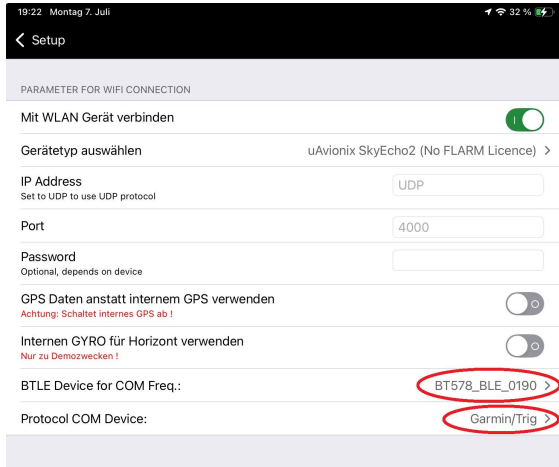
4.2 Prerequisites and Configuration in Android

Android Settings:

1. Bluetooth must be enabled in the Android settings.

2. Under *Apps/sky-map*, access to **Nearby devices** and **Location** must be granted.

4.3 Establishing Connection with the Adapter

3. Turn on the radio with the adapter.

4. Open in sky-map:
Menü → Setup → Wireless Interface Setup

5. Select **SD-KRT2-A** (if multiple are available).

6. Select the appropriate protocol for your radio:
TQ KRT2

7. Exit the setup.

At the next program start, sky-map will automatically reconnect to the last selected BTLE adapter.

> **Important:** For the automatic connection at program start to work, the radio and BTLE adapter must be turned on **before** sky-map is started.
> If this is not the case, the connection must be established manually by accessing the setup (see step 4).

5 Contact

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

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