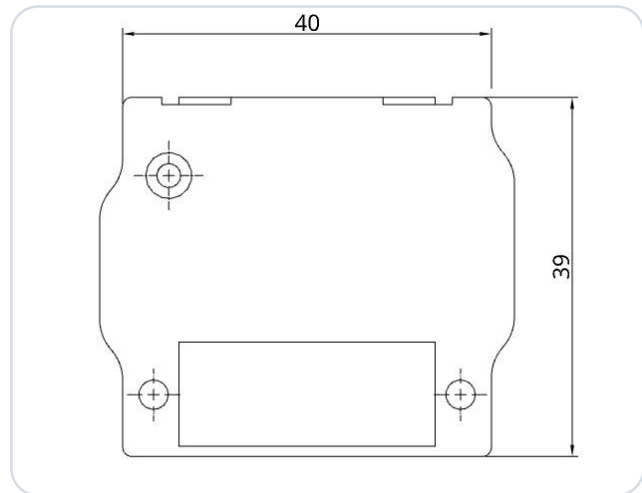


# TQ KRT2 – angled Adapter BLE Bluetooth

## XCSoar (Android) 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 compatible navigation apps (e.g., XCSoar). It realizes the data transfer conversion between the navigation app and the radio hardware (BLE ↔ 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:

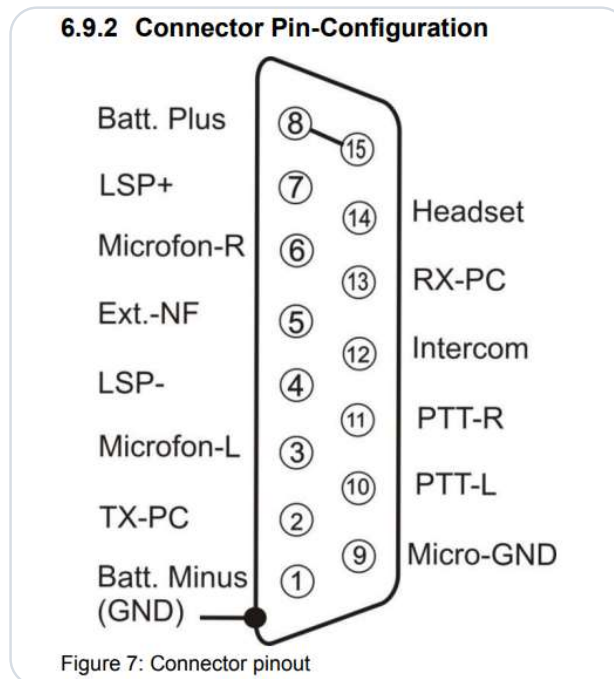


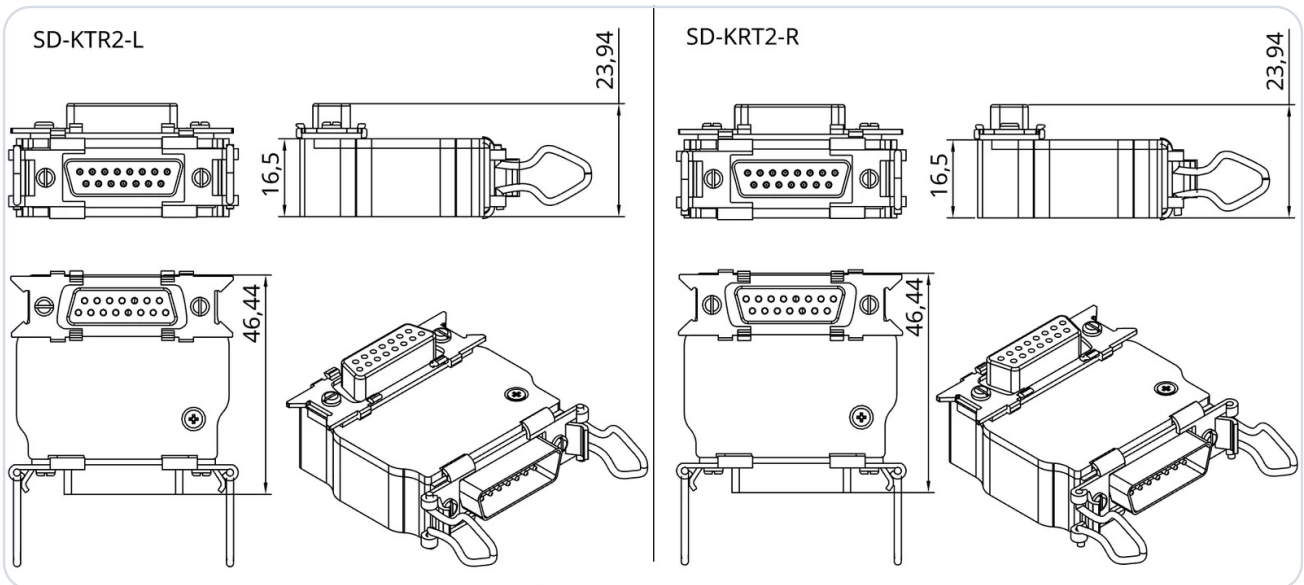
Figure 1 · KRT2 Connector Pinout

### 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 XCSoar

### IMPORTANT

#### Do not pair the SD-Link in the Bluetooth settings

The SD-Link adapter is a Bluetooth Low Energy (BLE) device. BLE devices are not paired via the Bluetooth settings of your tablet or phone like regular Bluetooth devices such as headsets or speakers.

Therefore, please do not open the Bluetooth settings of iOS, Android or Windows to search for or pair the SD-Link there.

The connection to the SD-Link is set up exclusively within the navigation app itself, e.g. in SkyDemon, Sky-Map, VFRnav, EasyVFR or another supported app. Pairing at operating-system level is not required and can even prevent the connection.

Regular Bluetooth devices such as headsets, intercoms or speakers can still be used in parallel. They are paired via the operating system as usual. The SD-Link, however, is addressed directly by the navigation app.

**If the SD-Link has already been paired in the Bluetooth settings:** Please remove the SD-Link completely from the Bluetooth device list of your tablet or phone. Do not pair it again via the operating system afterwards; instead, set it up again exclusively within the navigation app.

### REMEMBER

**Do not pair the SD-Link in the operating system.  
Always set up the SD-Link directly in the navigation app.**

### IMPORTANT

#### XCSoar: experimental and Android only

This guide describes the tested setup with XCSoar on **Android** (tested from XCSoar 7.42 onwards). XCSoar support is experimental and depends on the XCSoar version, the Android device and the radio driver.

On **iOS**, up to and including version 7.44, XCSoar offers – according to our testing – no BLE port for external devices; only internal sensors and TCP/UDP are available as port types, so the SD-KRT2-A cannot be used directly on iOS. For iOS, please use one of the other supported apps (e.g. SkyDemon).

### 4.1 Requirements

- Onboard power on, radio switched on.
- Switch on Bluetooth on your Android device.
- Start XCSoar.

### NOTE

No pairing is required. The SD-KRT2-A is a BLE device and is selected exclusively within XCSoar – not in the Bluetooth settings of Android (see the note above).

### 4.2 Adding the device in XCSoar

- ① Double-tap the map view to open the menu and select **Config** → **Devices**.
- ② Choose a free slot (e.g. **B**) and tap **Edit**.

- Open **Port**, select the entry **SD-KRT2** with the type **BLE port** and confirm with **Select**.

**IMPORTANT NOTICE**

Make sure to pick the type **BLE port**. Entries with a bare MAC address or the type **BLE sensor** are not correct; classic **Bluetooth** devices (e.g. headsets) are not correct either. No pairing is required.

- As **Driver**, select the radio type **KRT2**.
- Leave the edit dialog (back). The device setting is applied and appears in the **Devices** overview, which you close with **Close**.

**NOTE**

The slot now shows **KRT2 on BLE port: SD-KRT2**. As long as the radio is not connected, **No data** is shown below it; after a successful connection the display changes to **Connected**. If necessary, trigger the connection via **Reconnect**.

Port	
Headset	Bluetooth
Speaker	Bluetooth
4C:83:99:A9:47:FB	BLE sensor
<b>SD-KRT2</b>	<b>BLE port</b>
F1:B9:19:E2:9A:62	BLE sensor
5D:AB:17:33:4D:82	BLE sensor

Select      Cancel

Devices
A: Built-in GPS & sensors Connected
<b>B: KRT2 on BLE port: SD-KRT2</b> Connected
C: Disabled Disabled
D: Disabled Disabled

Close      Edit      Reconnect

Schematic representation of the XCSoar interface (Android), not an original screenshot: port selection (left), **Devices** overview with connected adapter (right).

### 4.3 Sending a frequency to the radio

- On the map, tap an airfield or waypoint that has a radio frequency stored. The list **Map elements at this location** opens.
- Select the desired entry and tap **Details**.

- ③ Use the arrows ◀ ▶ at the bottom to go to the page with **Set Active Frequency** and **Set Standby Frequency** and tap the desired option.

**NOTE**

**Set Active Frequency** transmits the frequency to the radio's active frequency, **Set Standby Frequency** to the standby frequency.

### Map elements at this location

NORDHEIM (EDXN)  
843 ft · 122.305 MHz

**WESTAU (EDXW)**  
1502 ft · 119.625 MHz

SUEDFELD (EDXS)  
1188 ft · 118.075 MHz

OSTBERG (EDXO)  
2014 ft · 120.350 MHz

Details   Goto   Close

### Waypoint: WESTAU

Pan to Waypoint

→ **Set Active Frequency**

→ **Set Standby Frequency**

Edit

◀   ▶   Close

*Schematic representation of the XCSoar interface (Android), not an original screenshot: Map elements with airfield frequency (left), waypoint menu with Set Active/Standby Frequency (right).*

## 5 Contact

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

### LayCom Vision GmbH – SD-Link

Michael Hoffmann

Chausseestr. 46  
D-15518 Rauen, Germany

E-Mail [info@sdlink.de](mailto:info@sdlink.de)

Phone [+49 3361 710253](tel:+493361710253)

Web [www.sdlink.de](http://www.sdlink.de)

