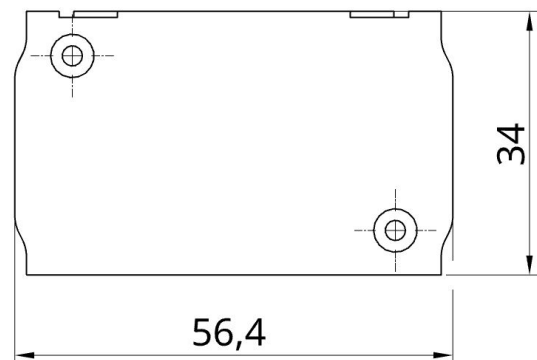# TRIG TY96/TY97 Adapter BLE Bluetooth

vfrNav EXPERIMENTAL

Bluetooth Low Energy Adapter (BLE) for a TRIG TY96/97 VHF transceiver (aviation radio). The adapter was developed as an interface between a TRIG TY96/97 and the navigation software vfrNav. It implements the data transfer between the navigation software (SD) and the radio hardware (BLE $\leftrightarrow$ RS-232). The adapter is simply screwed between the radio's mounting rack and the existing connector.

No additional power supply is necessary. The adapter can be operated with 12 V and 24 V onboard voltage. A self-resetting fuse is integrated in the housing. The power supply is protected against reverse polarity and short circuits.

A control unit already connected to the radio (EFIS, Garmin G3X, etc.) remains functional.

No further electrical work required!

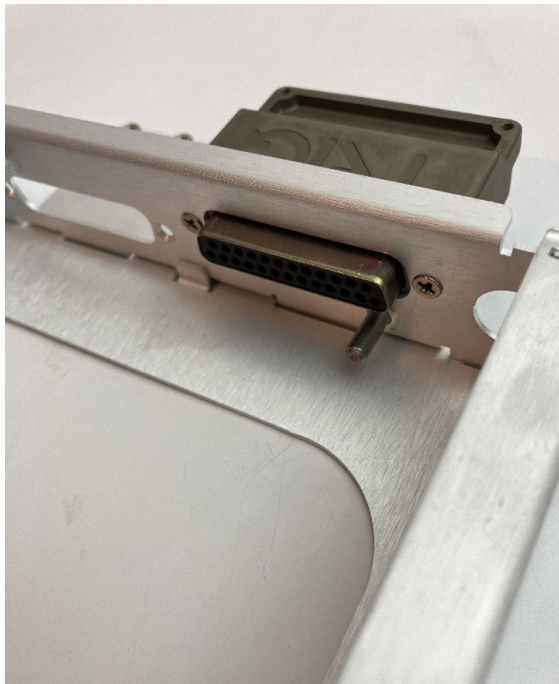> **Important:** This is a prototype for experimental use only!

1   Adapter Installation

The adapter is delivered with the following accessories:

- 2 × Countersunk screw 3 × 8 mm (for thermoplastics), Phillips head
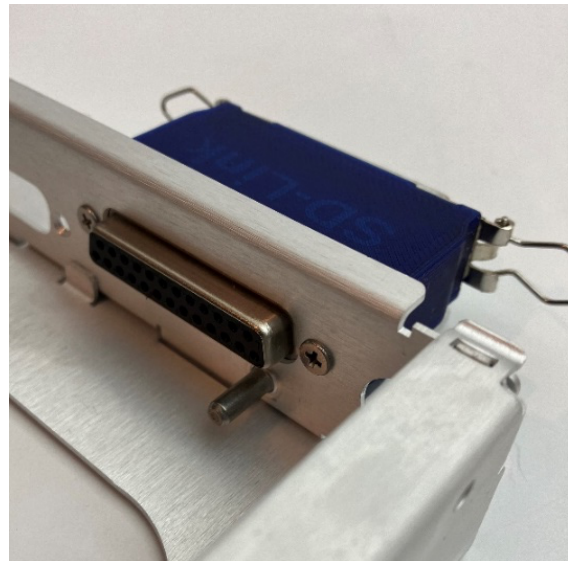- 2 × Retaining clip
- 2 × Screw UNC 4-40

## 1.1   Removing the TRIG Connector from the Tray

1. Remove the two Phillips head screws to detach the TRIG connector from the radio's tray.
2. Remove any dirt that has accumulated between the connector and tray.

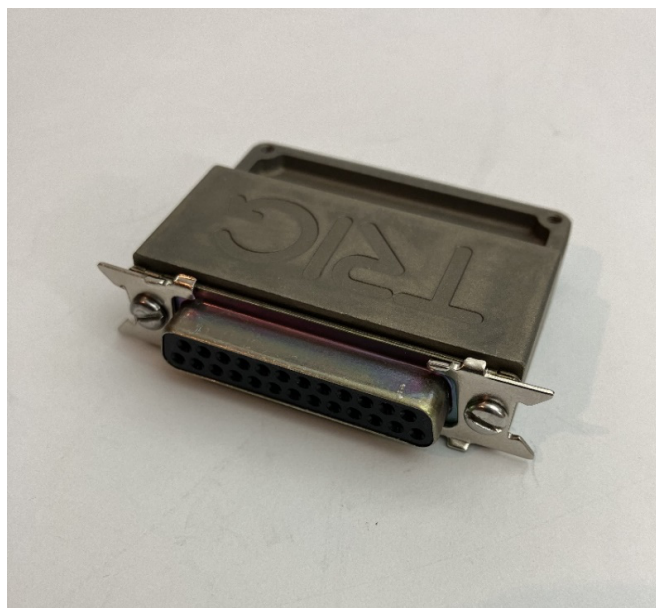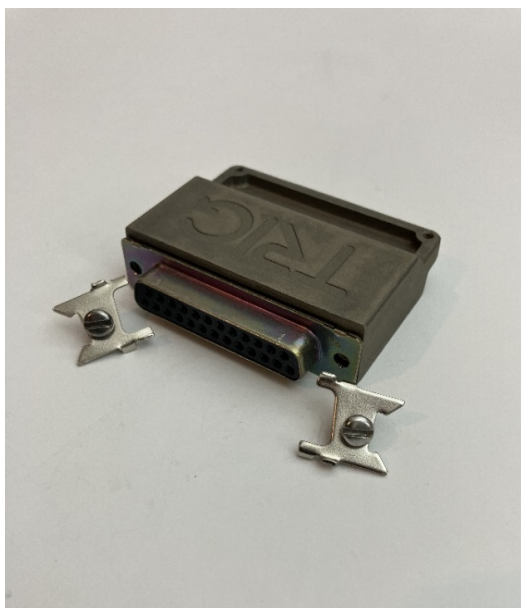## 1.2 Installing the SD-TY96-DS Adapter into the Tray

3. Install the SD-TY96-DS adapter into the tray using the included countersunk Phillips head screws (3×8 mm, for thermoplastics). Tighten the screws hand-tight and be careful not to overtighten the threads!
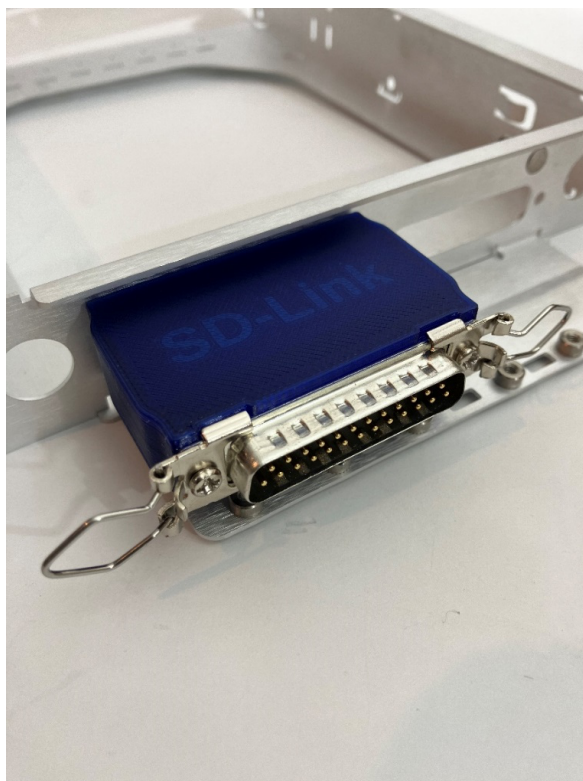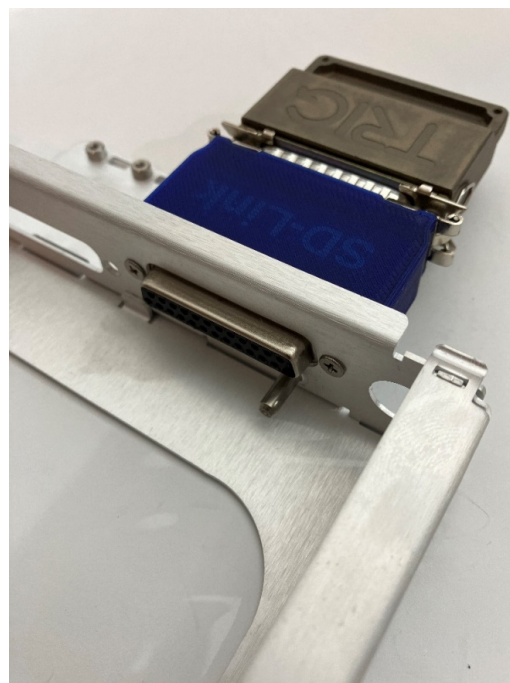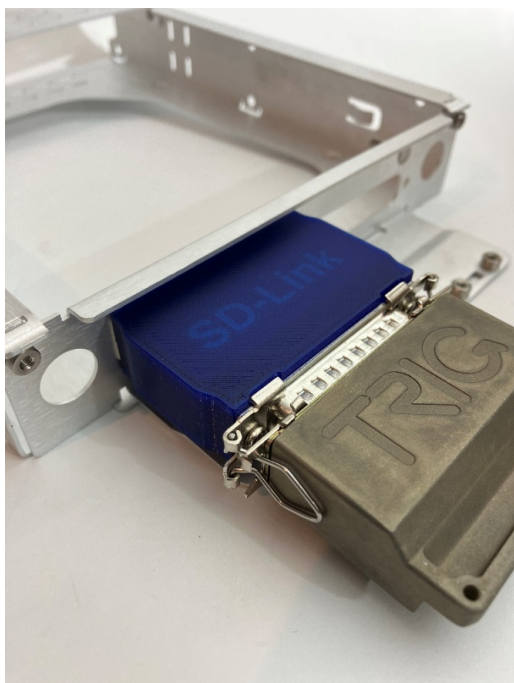
1.3   Mounting the Retaining Clips to the Original TRIG Connector

4. Mount the included retaining clips to the TRIG connector by tightening the UNC-4-40 screws with a slotted screwdriver.
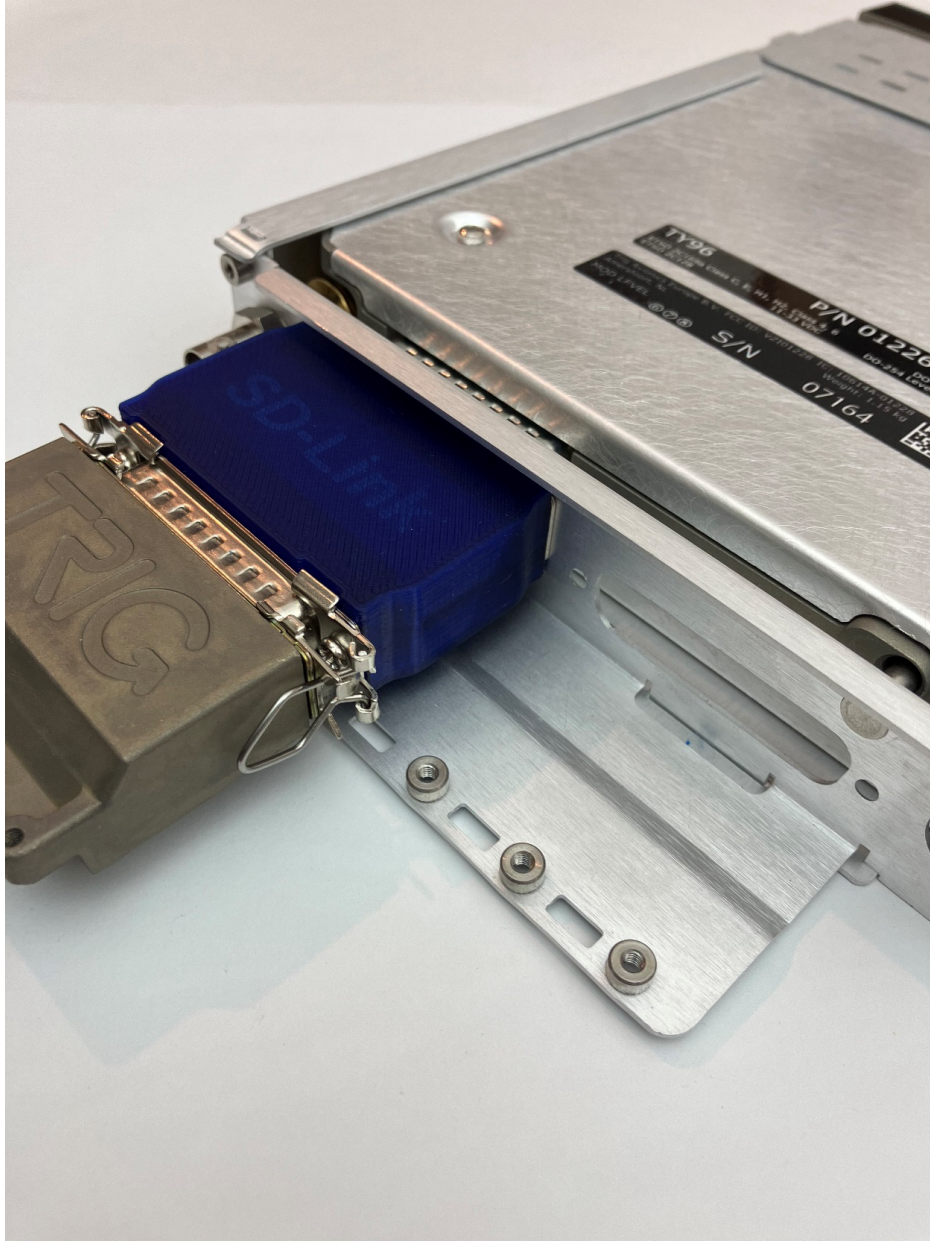
1.4   Connecting the TRIG Connector to the Adapter

5. Connect the SD-TY96-DS adapter to the TRIG connector by joining the adapter's clips with the installed retaining clips of the TRIG connector.

6. *Optional:* Secure the connection between adapter and TRIG connector with a cable tie.

7. Verify that all connections are tight and secure.

2   Radio Configuration

No further configuration is required on the radio.

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
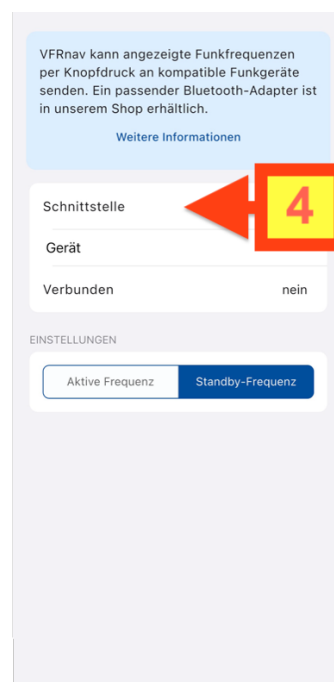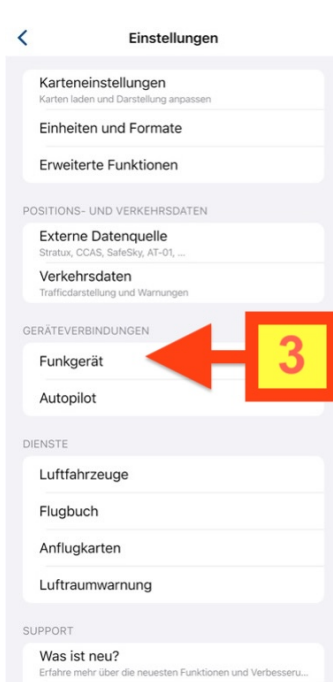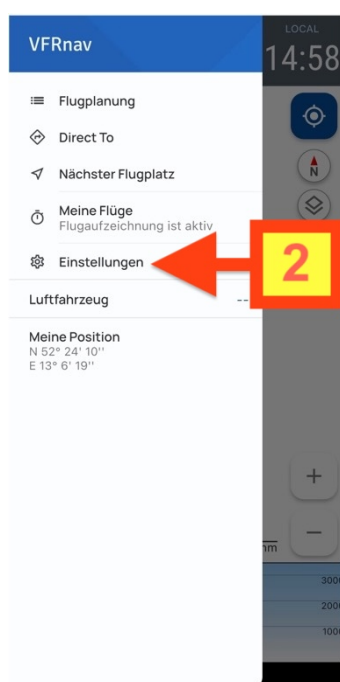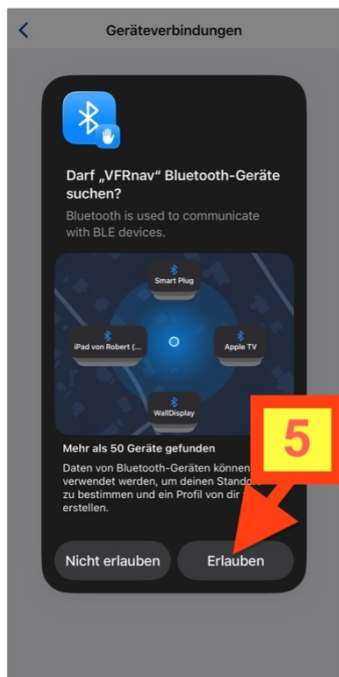
5. Enable Bluetooth if necessary

6. Select the name of the found adapter: **SD-TYX**

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.
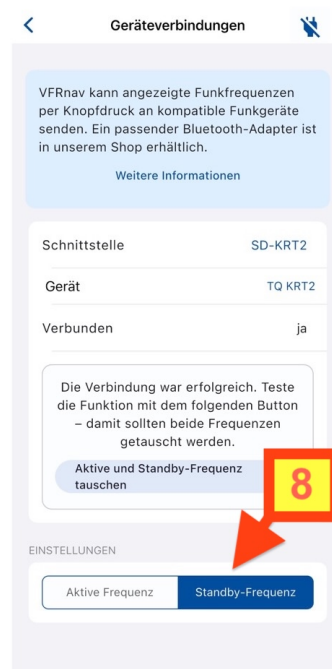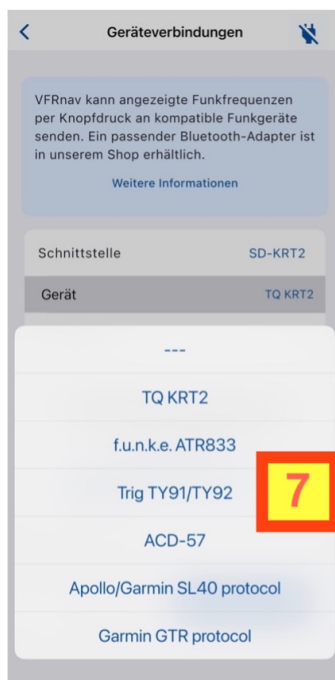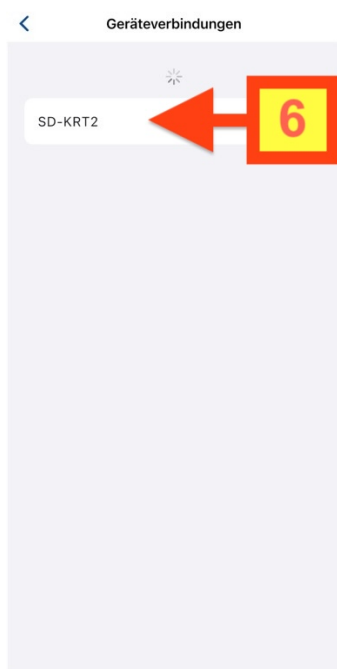
4   Contact

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

LayCom Vision GmbH – SD-Link
Michael Hoffmann

Chausseestr. 46
D-15518 Rauen, Germany

Email: info@sdlink.de
Phone: +49 3361 710253