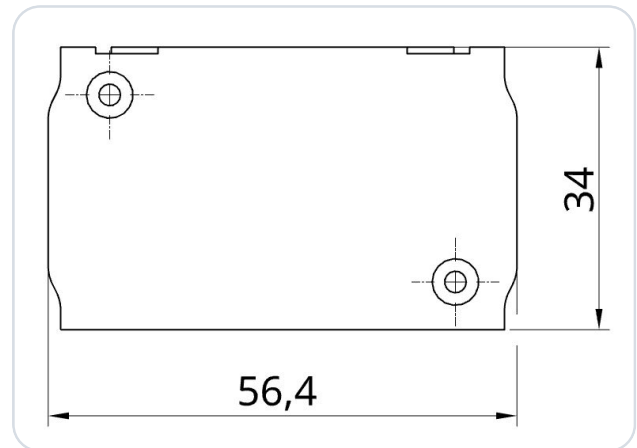


TRIG TY96/TY97 Adapter BLE Bluetooth

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 ↔ 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!

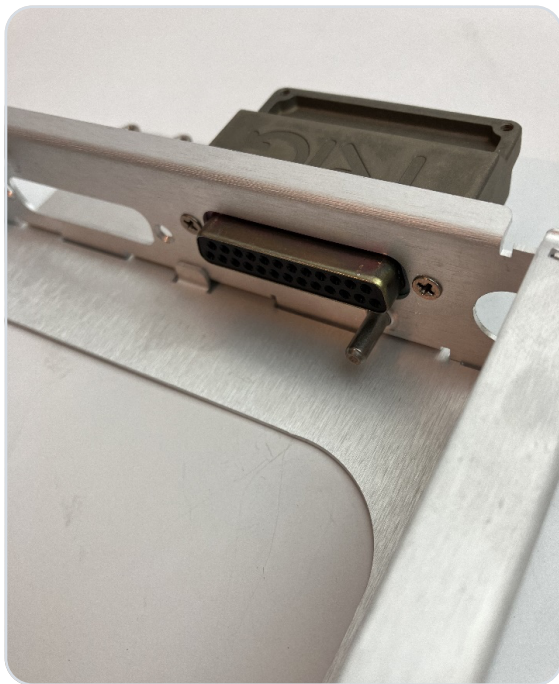
1 Adapter Installation

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

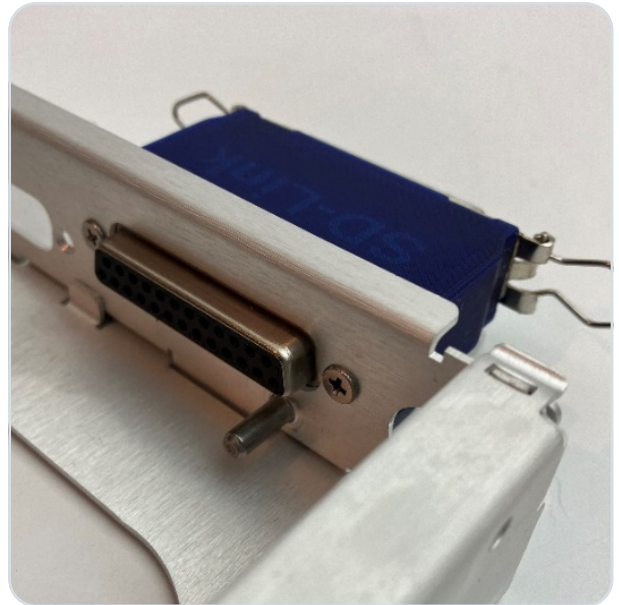


1.1 Removing the TRIG Connector from the Tray

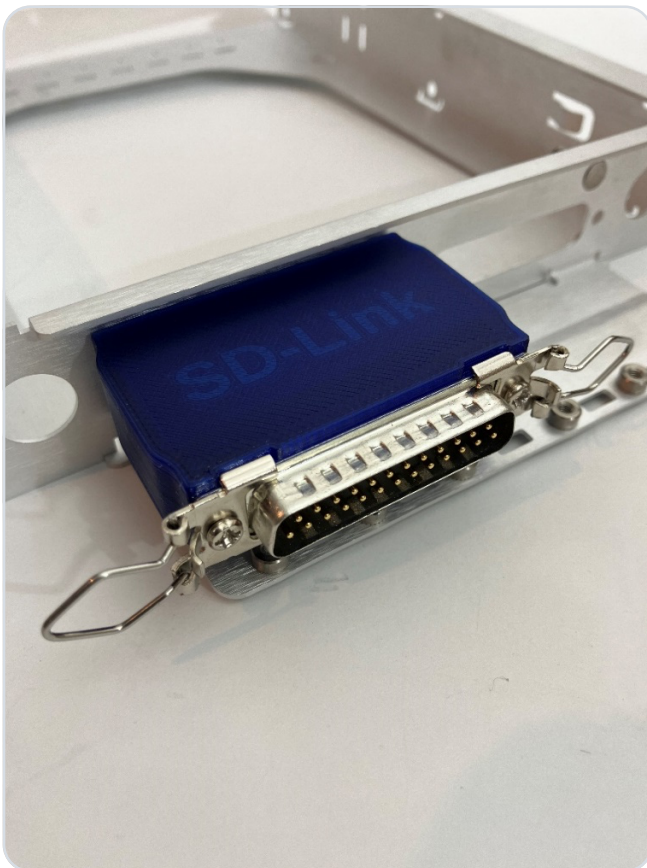


- ① Remove the two Phillips head screws to detach the TRIG connector from the radio's tray.
- ② Remove any dirt that has accumulated between the connector and tray.

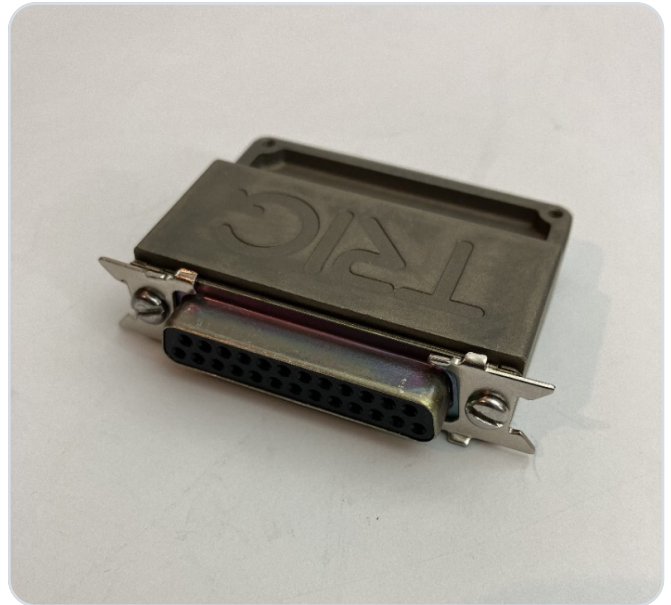
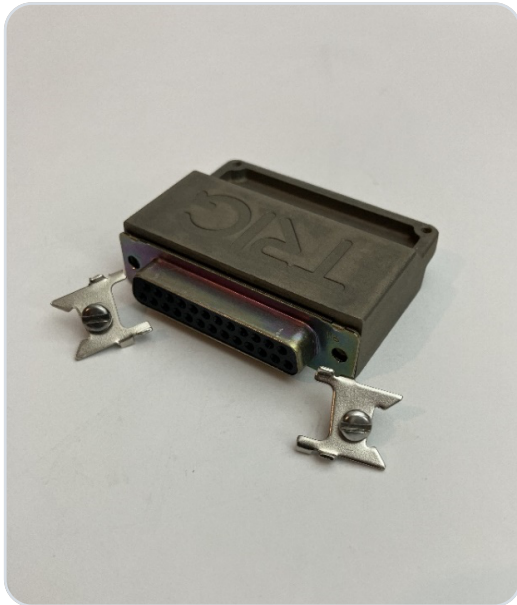
1.2 Installing the SD-TY96-DS Adapter into the Tray



- 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!

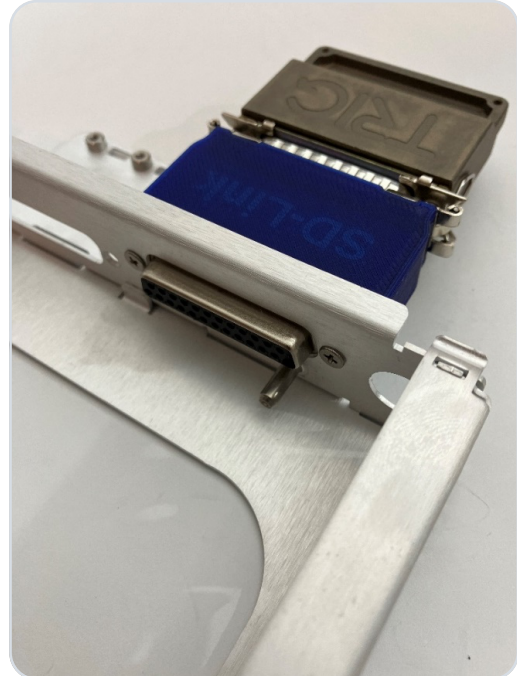
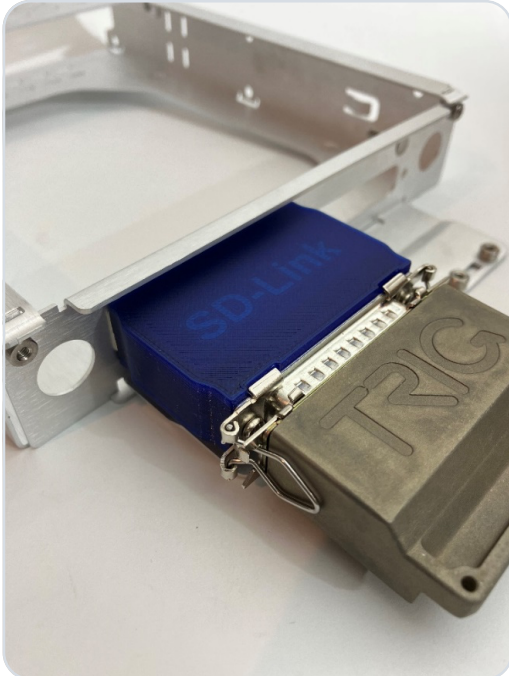


1.3 Mounting the Retaining Clips to the Original TRIG Connector



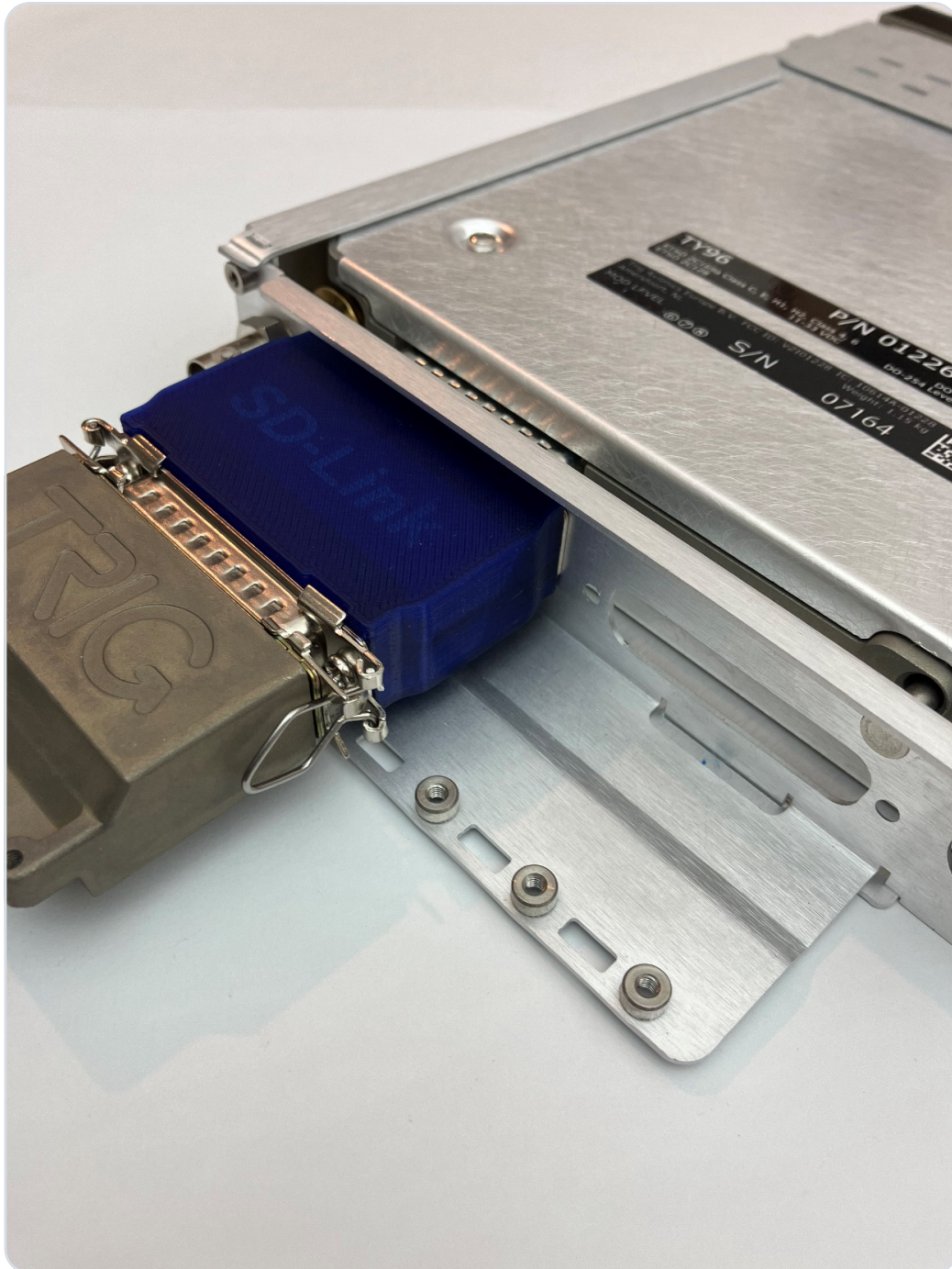
- ④ Mount the included retaining clips to the TRIG connector by tightening the UNC-4-40 screws with a slotted screwdriver.

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 Connector Pinout

The connector pinout is an excerpt from the TRIG installation manual.

PIN	SIGNAL	DIRECTION
1	Speaker Out	Output
2	Headphone 1 Left Out	Output
3	Headphone 1 Right Out	Output
4	Ground	–
5	Headphone 2 Left Out	Output
6	Headphone 2 Right Out	Output
7	Audio Out	Output
8	Lighting Bus In	Input
9	Ground	–
10	Transmit Interlock In	Input
11	RS232 Out	Output
12	RS232 In	Input
13	Aircraft Power (DC)	–
14	Aux Audio	Input
15	Music Audio Left In	Input
16	Music Audio Right In	Input
17	Ground	–
18	Microphone 1	Input
19	Microphone 2	Input
20	Reserved	Input
21	Remote Flip-Flop	Input
22	Intercom Key	Input
23	PTT1	Input
24	PTT2	Input
25	Aircraft Power (DC)	–

Source: TRIG TY96/TY97 installation manual.

4 Configuration in vfrNav

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.

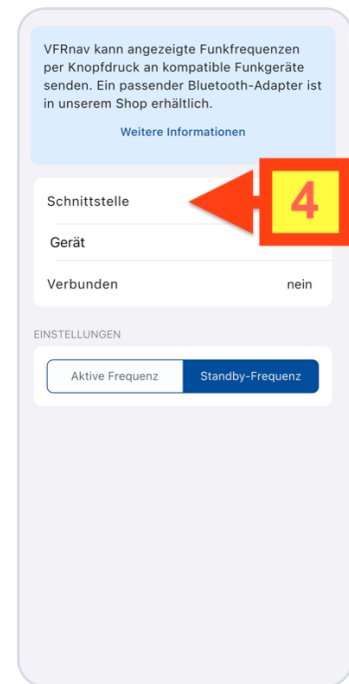
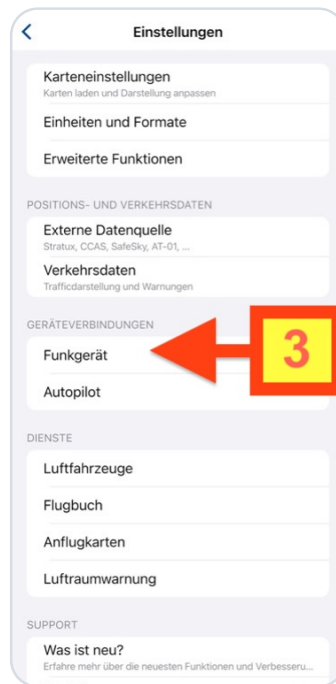
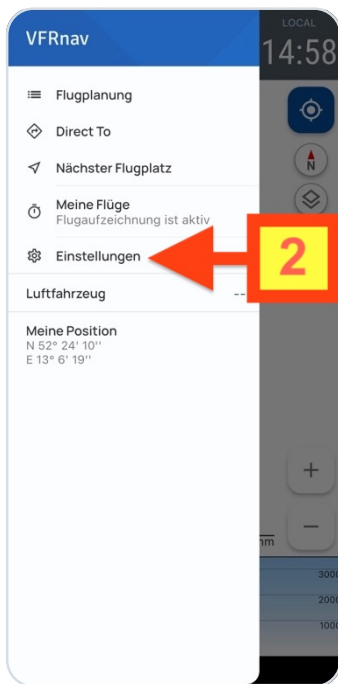
REMEMBER

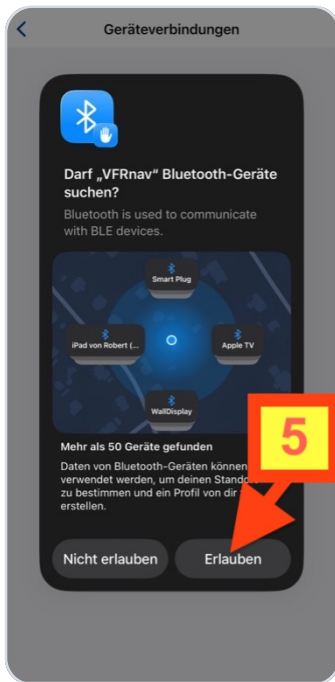
Do not pair the SD-Link in the operating system.

Always set up the SD-Link directly in the navigation app.



- 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

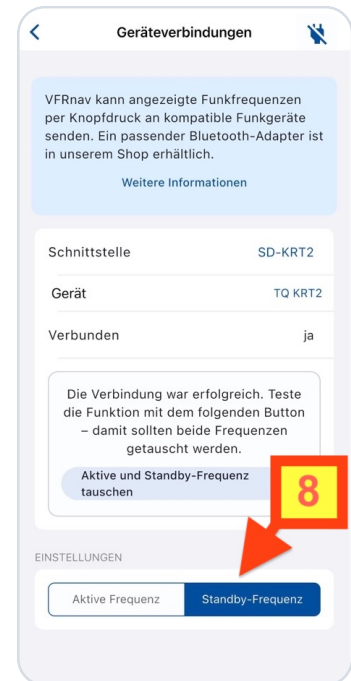
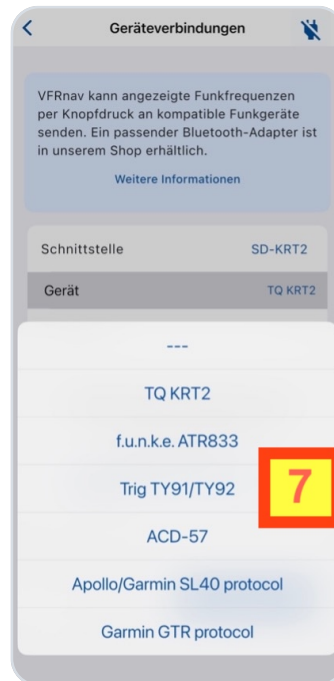
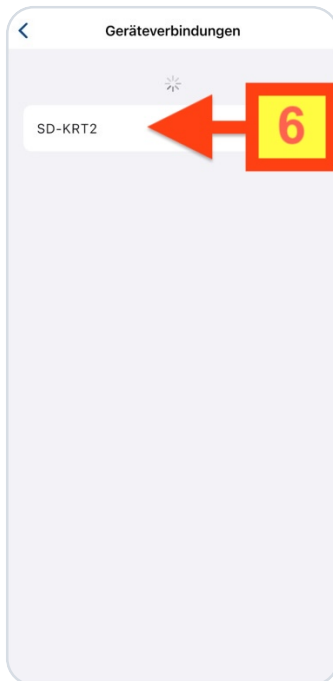




- ⑤ Enable Bluetooth if necessary
- ⑥ Select the name of the found adapter: **SD-TYX**
- ⑦ If the protocol was not automatically detected, please adjust it under „Gerät" anpassen.
- ⑧ In the connection settings, specify whether the frequency should be transmitted to the radio immediately as active or as standby.

IMPORTANT NOTICE

Check under „Verbunden": It should say „ja" stehen.



5 Contact

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

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