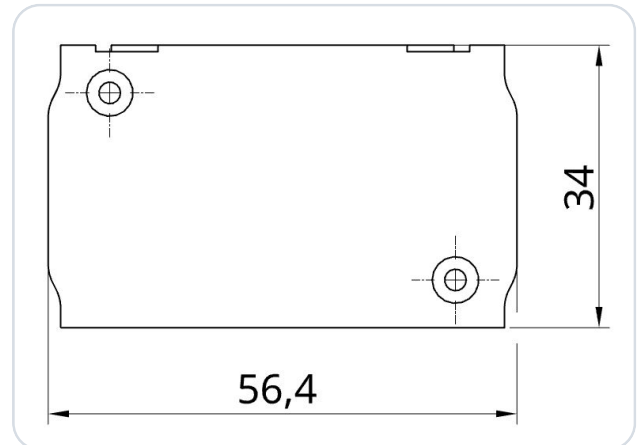


TRIG TY96/TY97 Adapter BLE Bluetooth

easyVFR 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 easyVFR. 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!

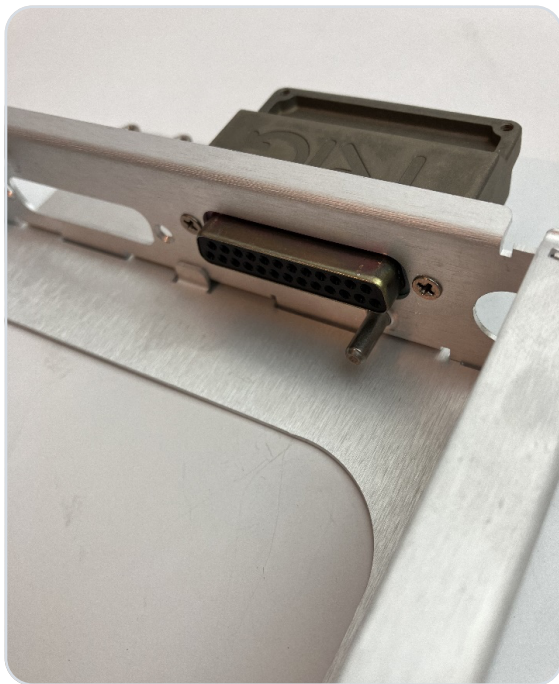
1 Adapter Installation

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

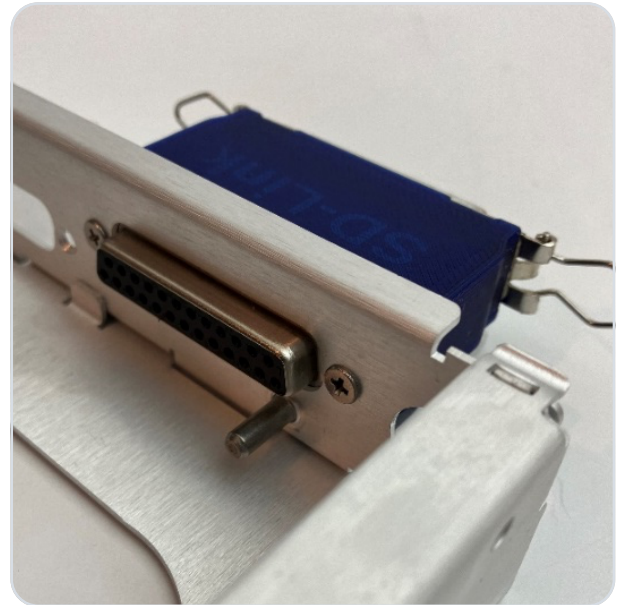


1.1 Removing the TRIG Connector from the Tray

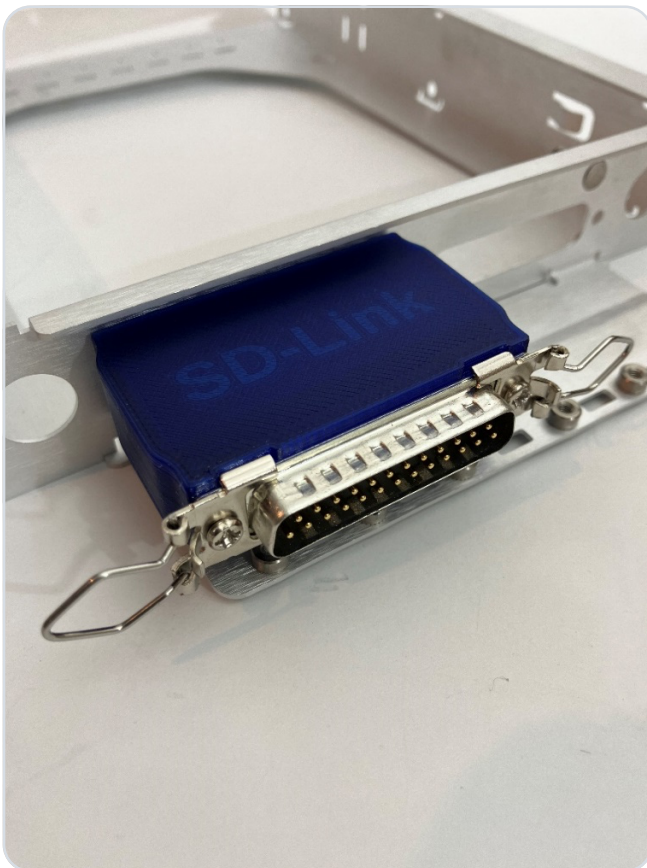


- ① Remove the two Phillips head screws to detach the TRIG connector from the radio's tray.
- ② Remove any dirt that has accumulated between the connector and tray.

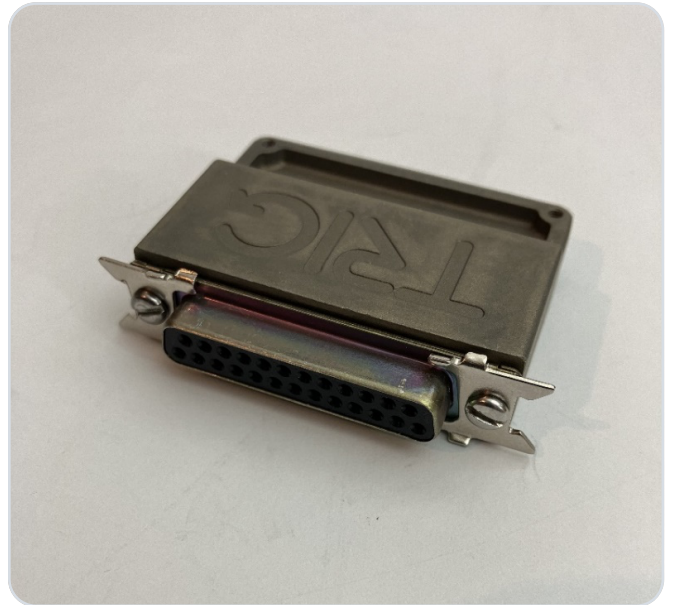
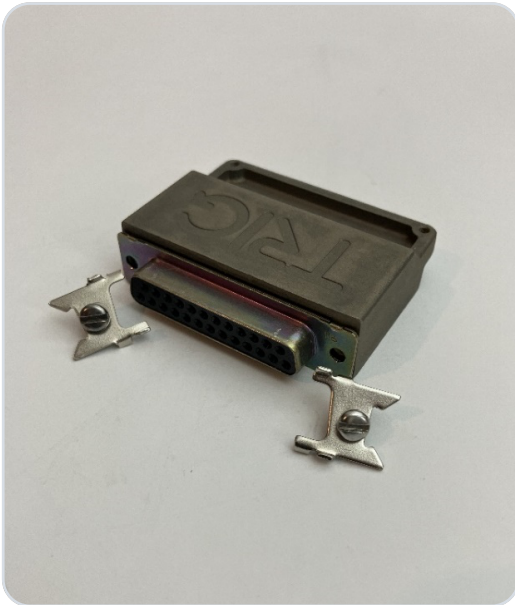
1.2 Installing the SD-TY96-DS Adapter into the Tray



- 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!

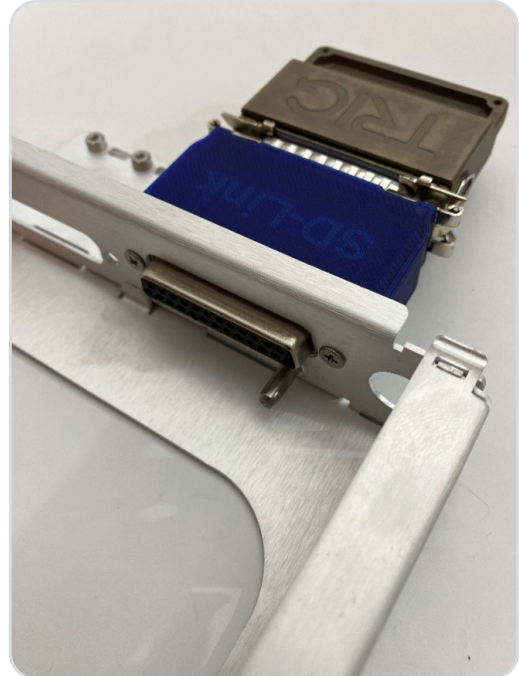
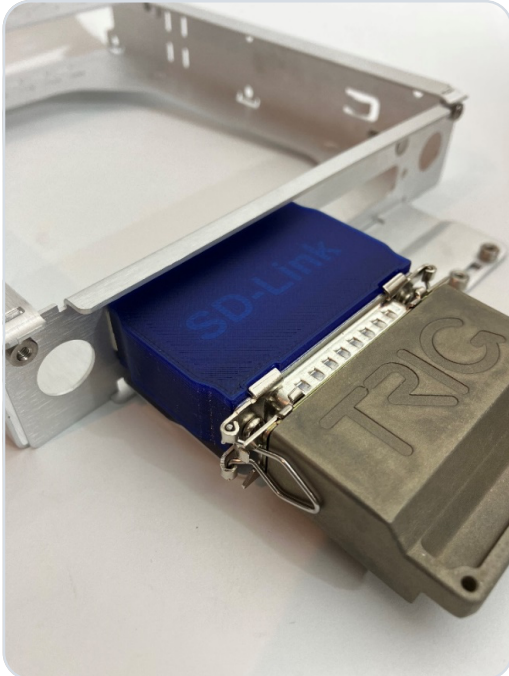


1.3 Mounting the Retaining Clips to the Original TRIG Connector



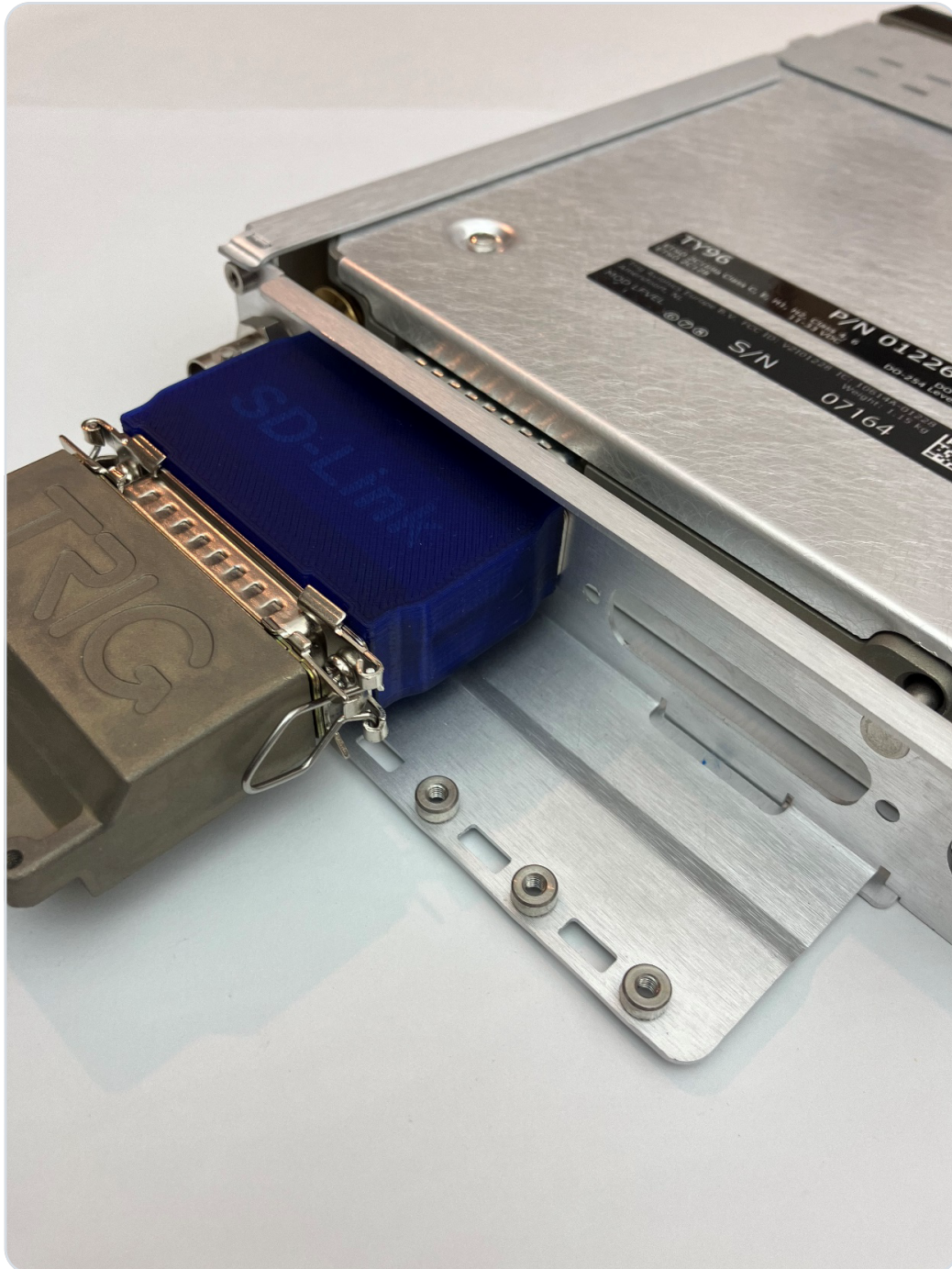
- ④ Mount the included retaining clips to the TRIG connector by tightening the UNC-4-40 screws with a slotted screwdriver.

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 EasyVFR

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.

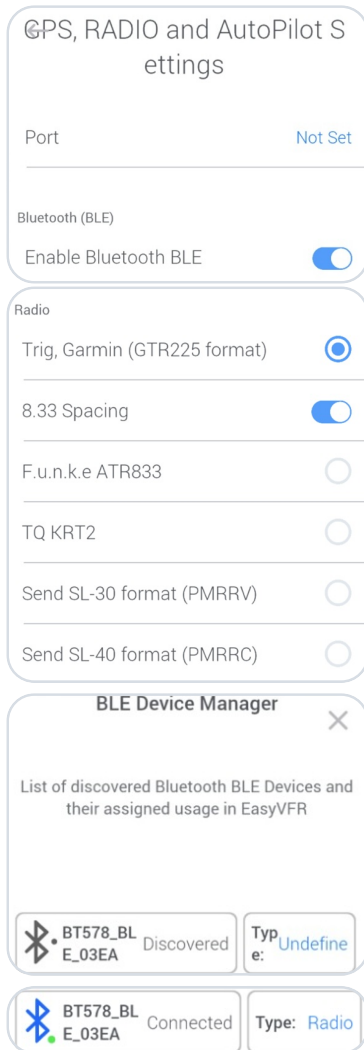
If the SD-Link has already been paired in the Bluetooth settings: Please remove the SD-Link completely from the Bluetooth device list of your tablet or phone. Do not pair it again via the operating system afterwards; instead, set it up again exclusively within the navigation app.

REMEMBER

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

4.1 Enable Bluetooth and select radio

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



4.1.1 Enable Bluetooth BLE in EasyVFR

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

4.1.2 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.

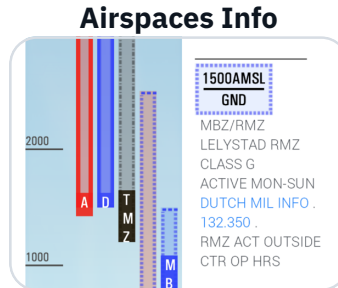
4.1.3 Open BLE device list and assign adapter

- ① EasyVFR now continuously scans for BLE devices
- ② Menu → **Bluetooth BLE devices**
- ③ Select the adapter from the list (e.g. **SD-TY96/TY97**)
- ④ Tap the Type until **Radio** is set (cycle: AutoPilot / GPS/Traffic / Radio / undefined)
- ⑤ EasyVFR connects; indicated by "Connected" (incl. Bluetooth icon).

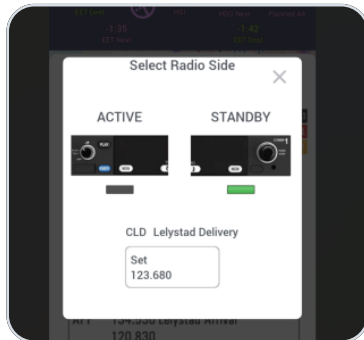
4.1.4 Send frequencies (Remote Tuning)

① Tap frequency in:

Airfield Info	
TWR	135.180 Lelystad Tower 123.830
ATIS	120.730 Lelystad Information H24
CLD	123.680 Lelystad Delivery 123.830 Start-up and clearance delivery
APP	134.530 Lelystad Arrival 120.830



Radio and Position	
N52 27 31.0 E005 31 27.7 0.5NM NE of EHLE-Lelystad 3.6NM S of Lelystad (NL)	
Departure EHLE Lelystad, -12ft Density Altitude -396ft	
ATIS	120.730 Lelystad Information
CLD	123.680 Lelystad Delivery
TWR	135.180 Lelystad Tower
APP	134.530 Lelystad Arrival



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

4.1.5 Optional control aids (Radio Card)

Radio and Position	
N52 27 31.0 E005 31 27.7 0.5NM NE of EHLE-Lelystad 3.6NM S of Lelystad (NL)	
List of previously selected frequencies	
RDO	121.005 Teuge Radio
	132.350 DUTCH MIL INFO
APP	119.055 Schiphol Approach
CLD	123.680 Lelystad Delivery
TWR	135.180 Lelystad Tower
ATIS	120.730 Lelystad Information
MISC	134.480 Gilze Monitor
APP	134.530 Lelystad Arrival

① Keypad icon: manual frequency entry

② Clock icon: recently set frequencies (History)

5 Contact

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

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