

INSTALLATION MANUAL

TRIG TY96/TY97 Adapter BLE Bluetooth

SkyDemon (SD) · **EXPERIMENTAL**

Bluetooth Low Energy adapter (BLE) that handles the data transfer between the navigation software and a TRIG TY96 / TY97 VHF transceiver (aviation radio) (BLE ↔ RS-232). The adapter simply connects to the radio – **no further electrical work required**.



SPECIFICATIONS

RADIO	TRIG TY96 / TY97
OPERATING SYSTEM	Android · iOS
INTERFACE	BLE ↔ RS-232
CONFIGURATION	Dual-Source BLE/EFIS → Radio
POWER SUPPLY	via the radio · 12/24 V
INTEGRATED FUSE	yes · self-resetting
WEIGHT	50 g
DIMENSIONS	56,4 × 47,45 × 16,5 mm

IMPORTANT

This is a prototype for experimental use only!

1 Adapter Installation

NOTE

Prerequisite: Trig mounting tray

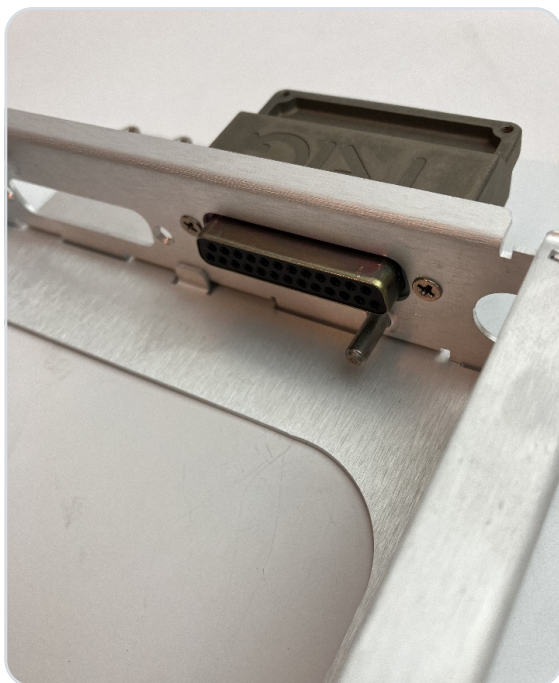
The adapter is screwed directly to the original Trig mounting tray (*screw and play*). Installation therefore requires the radio to be mounted with the original Trig tray – without the tray the adapter cannot be attached.

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

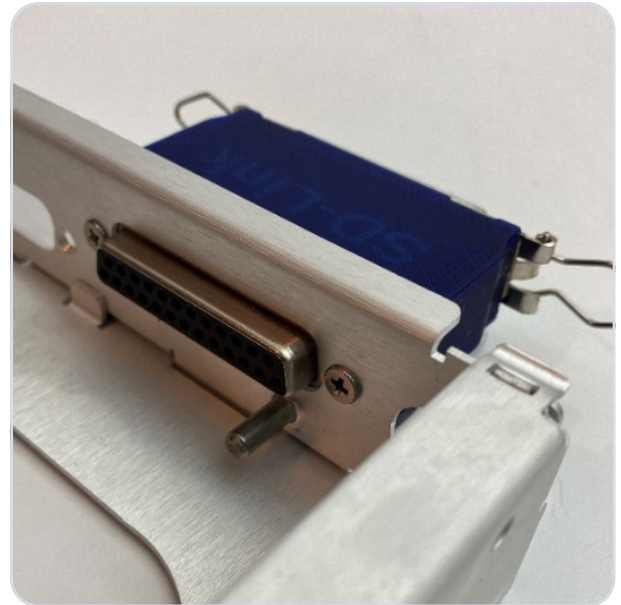


1.1 Removing the TRIG Connector from the Tray

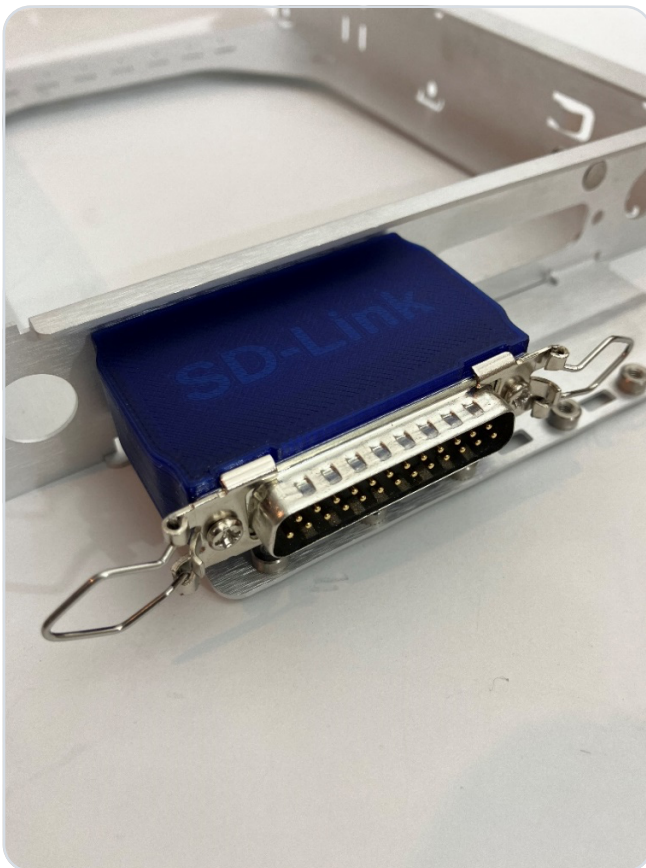


- ① Remove the two Phillips head screws to detach the TRIG connector from the radio's tray.
- ② Remove any dirt that has accumulated between the connector and tray.

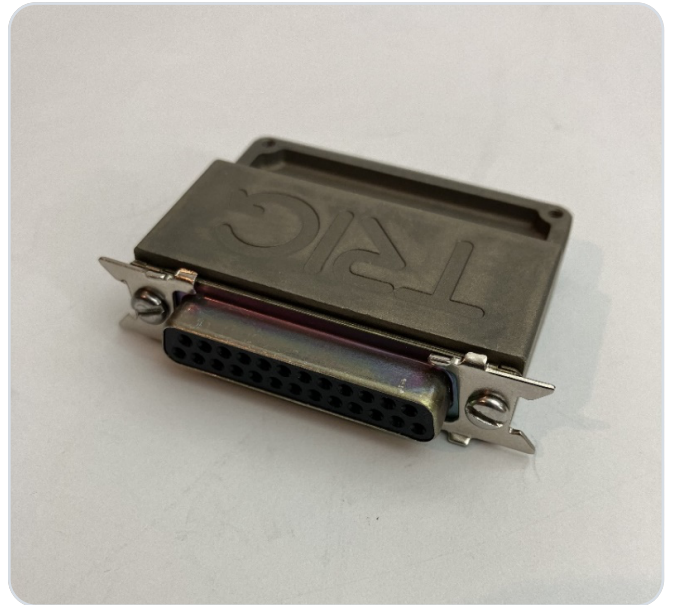
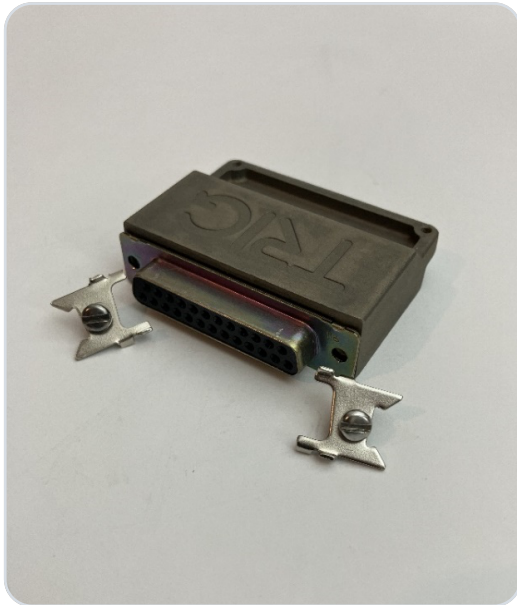
1.2 Installing the SD-TY96-DS Adapter into the Tray



- 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!

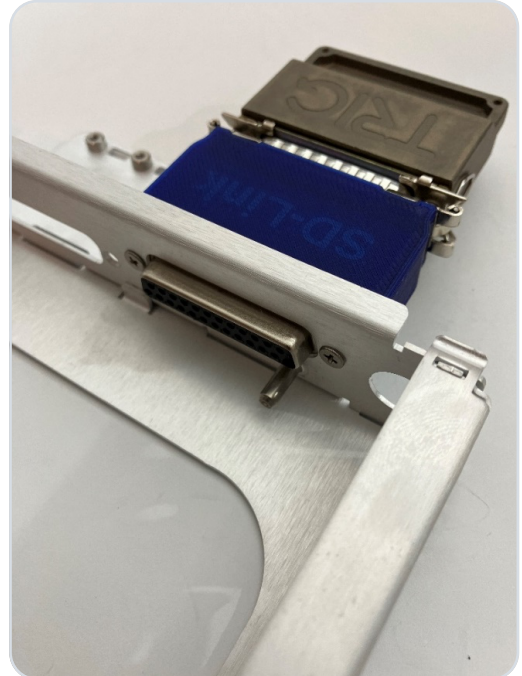
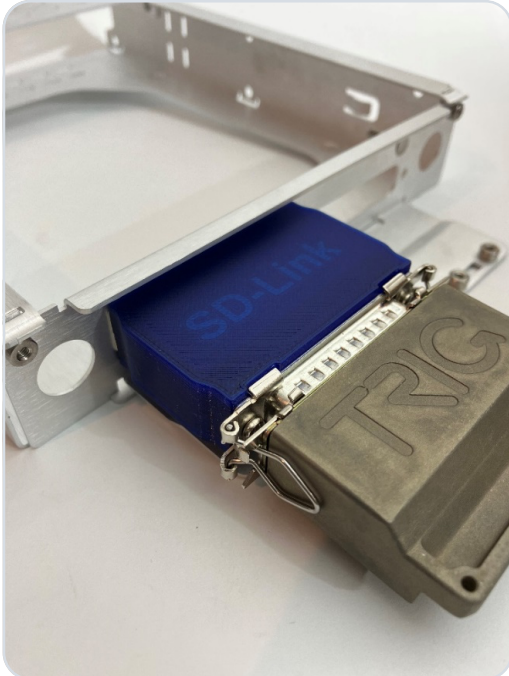


1.3 Mounting the Retaining Clips to the Original TRIG Connector



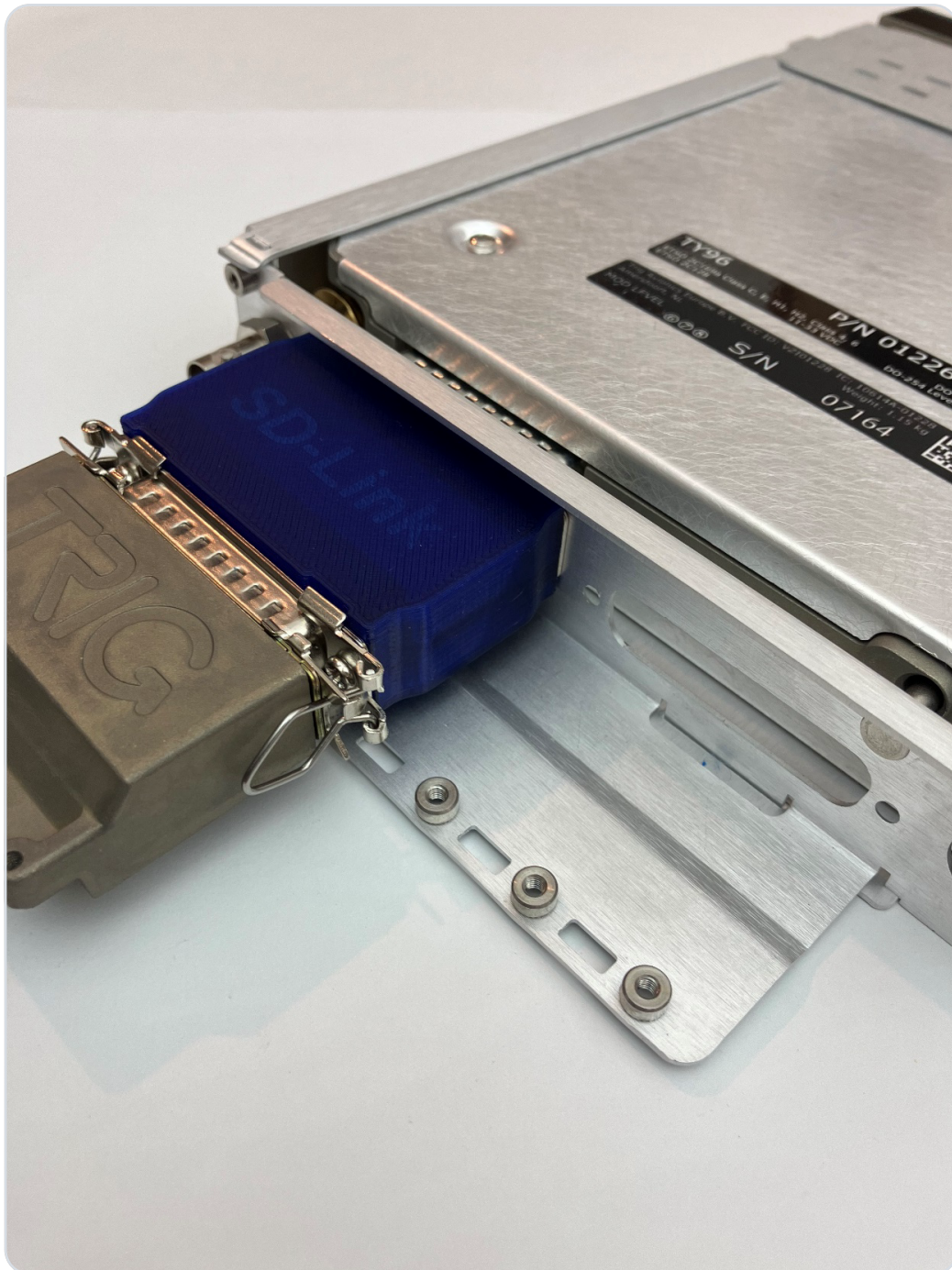
- ④ Mount the included retaining clips to the TRIG connector by tightening the UNC-4-40 screws with a slotted screwdriver.

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 SkyDemon

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.

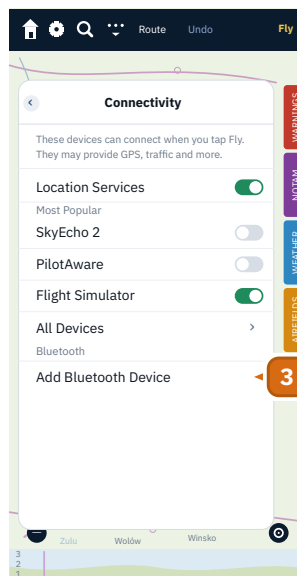
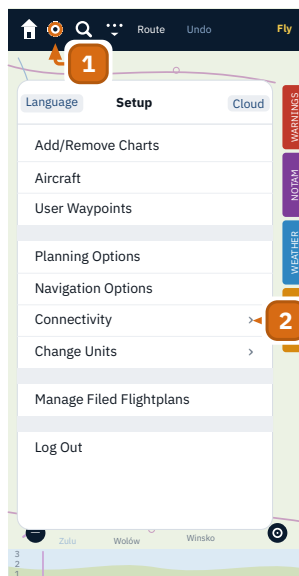
Regular Bluetooth devices such as headsets, intercoms or speakers can still be used in parallel. They are paired via the operating system as usual. The SD-Link, however, is addressed directly by the navigation app.

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.

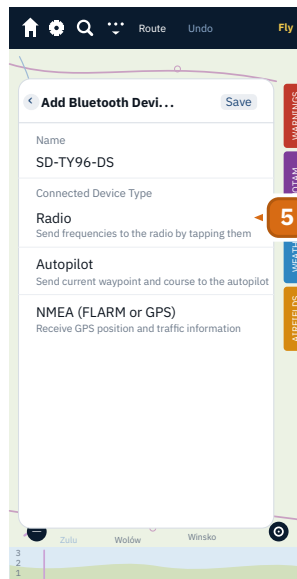
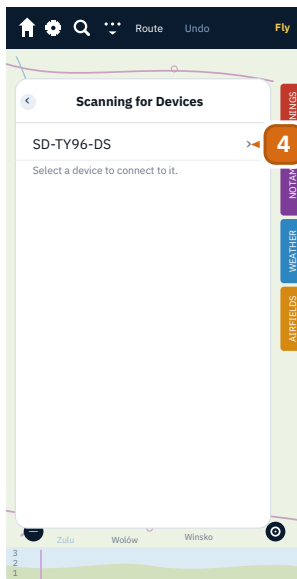
REMEMBER

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

The figures below are schematic redrawings of the SkyDemon interface (iOS), not original screenshots. Orange numbered markers indicate the step to tap; a blue check marks an already-selected setting.

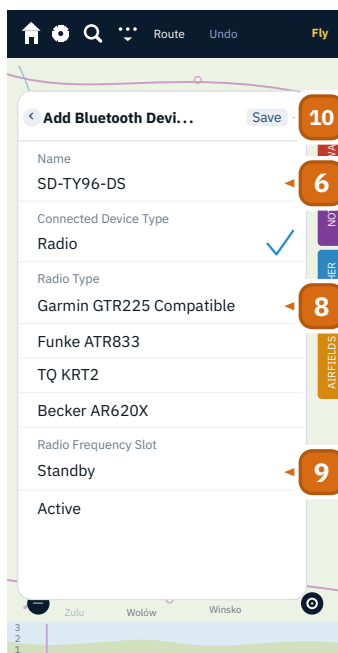


- ① Open the **Setup** menu via the gear icon.
- ② Choose **Connectivity**.
- ③ Under **Bluetooth** choose **Add Bluetooth Device**.



④ Wait until the search has finished (this can take a moment), then select the entry **SD-TY96-DS**.

⑤ As **Connected Device Type** choose **Radio**.



⑥ The **Name** shown can be changed if you wish.

⑦ The **Connected Device Type** is already set to **Radio** (blue check).

⑧ As **Radio Type** choose the radio type **Garmin GTR225 Compatible**.

⑨ Under **Radio Frequency Slot** choose whether the **Standby** or the **Active** frequency is set.

⑩ **Save the settings with Save** — the adapter is now ready to use.

NOTE

Set **Active/Standby** determines which radio frequency tapped values are sent to. The **Radio Type** **Garmin GTR225 Compatible** is fixed for the SD-TY96-DS.

5 Contact

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

LayCom Vision GmbH – SD-Link

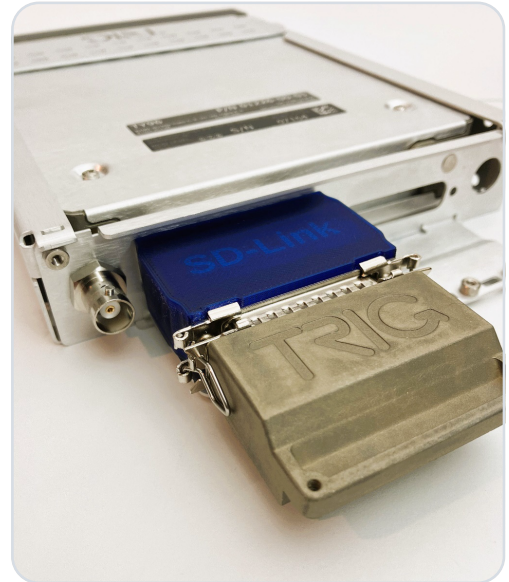
Michael Hoffmann

Chausseestr. 46
D-15518 Rauen, Germany

E-Mail info@sdlink.de

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

Web www.sdlink.de



Dimensions

