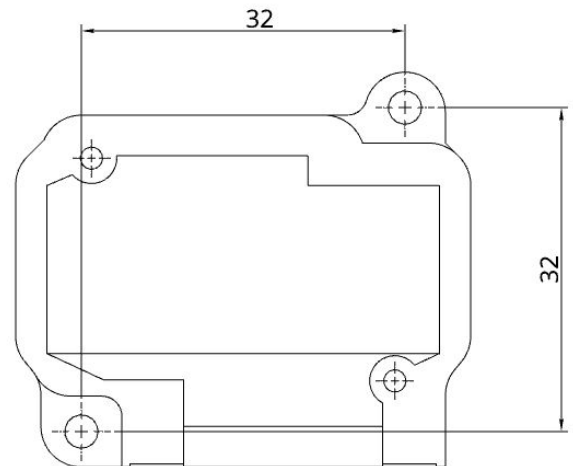


Generic Adapter BLE Bluetooth DS (Dual Source)

vfrNav EXPERIMENTAL



Bluetooth Low Energy Adapter (BLE) developed for the navigation software vfrNav.

It implements the data transfer between the navigation software (SD) and the avionics hardware (BLE ↔ RS-232) and also works with an existing RS-232 data source, e.g. an EFIS (Dynon, Garmin G3X, etc.) for radio frequency setting.

Set the frequencies of your VHF transceiver, control your autopilot, feed your AV-30 with this Bluetooth adapter directly from the vfrNav app.

This adapter has only the basics you need to connect the vfrNav navigation software to your avionics. Mount it somewhere behind the panel, connect power and distribute the signals to the devices. Yes, this sounds like tinkering... but you want it that way ;-)

The adapter can be operated with 12 V and 24 V aircraft voltage. A self-resetting mini-fuse is integrated in the housing. The power supply is protected against reverse polarity and short circuit.

IMPORTANT

This is a prototype for experimental use only!

1 Radio Configuration

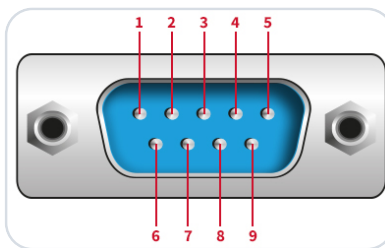
Must be performed according to the respective device. TRIG TY91/92/96, f.u.n.k.e ATR833, TQ KRT2, GARMIN GTR225 / GNC225 do not require any further settings on the radio.

2 Connector Pin Assignment

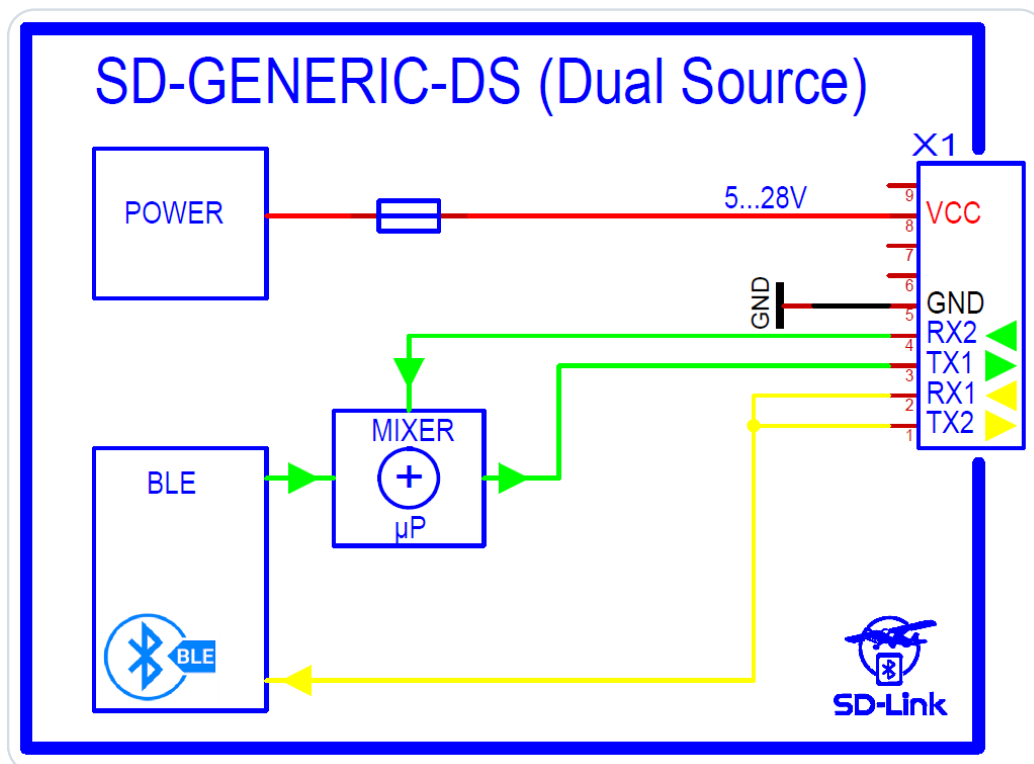
IMPORTANT NOTICE

A common ground is mandatory

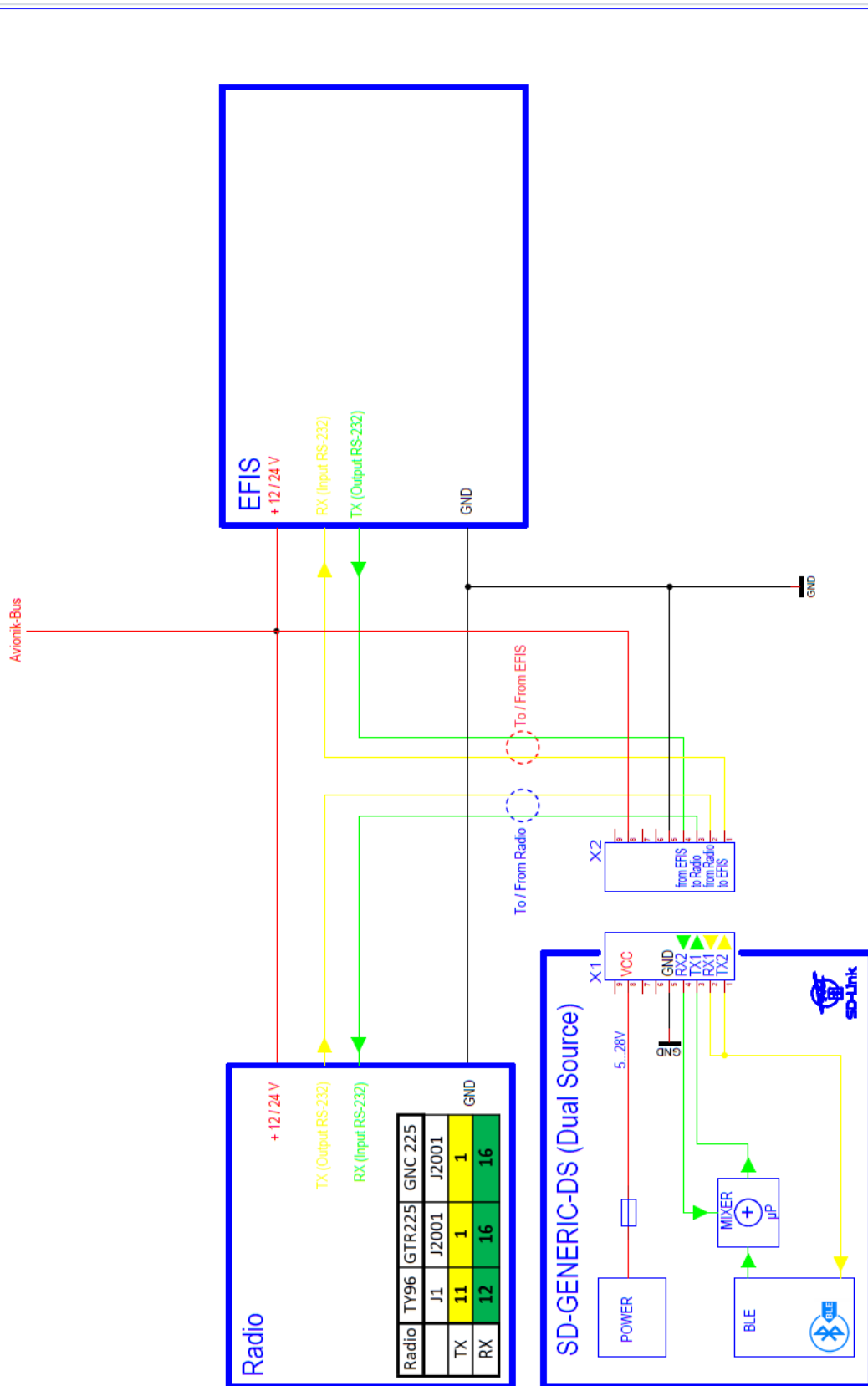
The radio and the SD-Link need a common ground (GND). If the ground wire between radio and adapter is missing, no data – or only sporadic data – will flow; a missing ground wire is one of the most common mistakes in RS-232 installations. Therefore always connect GND in addition to the data lines.



Pin	Function	Description
Pin 1	Data TXD	Output 2 - V24 data to EFIS
Pin 2	Data RXD	Input 1 - V24 data from Radio
Pin 3	Data TXD	Output 1 - V24 data to Radio
Pin 4	Data RXD	Input 2 - V24 data from EFIS
Pin 5	GND	
Pin 8	Power	+ 5 ... 28 V



3 Wiring Diagram



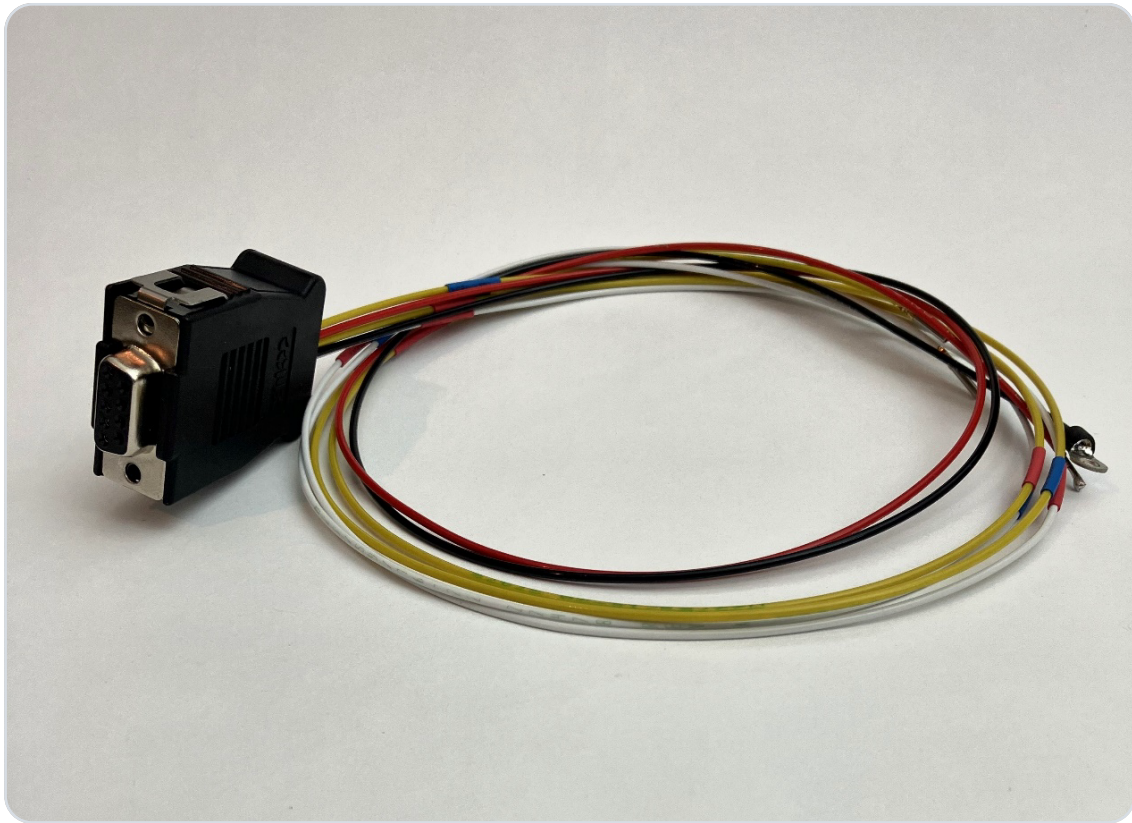
Maßstab	© SD-Link	Hoffmann	Blatt 1 von 1
Änderung	12.06.2025	20:39	Anschlussplan SD-GENERIC-SD
Ausgabe	12.06.2025	21:02	Projekt: SD-GENERIC-DS
Datei			

4 Cable Harness

A pre-configured cable harness is available for connection (**SD-GENERIC-CAB-02**).

The connection is made using a Conec Snap-Lock adapter and prepared MIL M39029/63-368 crimp contacts. In the best case, these can simply be "snapped" into the existing Sub-D connector.





5 Contact

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

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Dimensions

