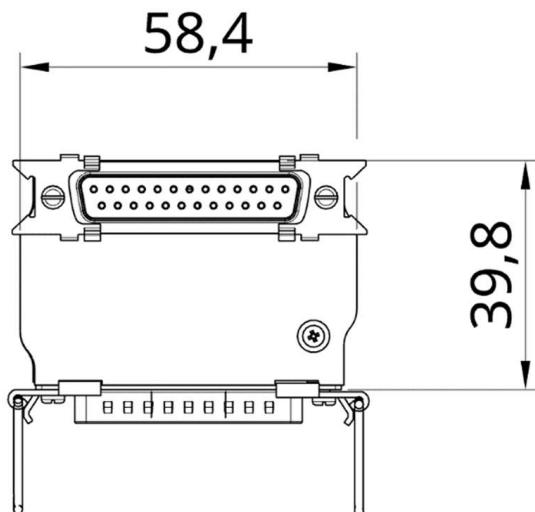




## f.u.n.k.e ATR833 – angled Adapter BLE Bluetooth

### easyVFR EXPERIMENTAL



Angled version of the Bluetooth Low Energy adapter (BLE) for a f.u.n.k.e ATR833 VHF transceiver (aviation radio), for installations with limited space behind the radio, compatible with ATR833, ATR833S, ATR833A, ATR833-II, ATR833A-II.

The adapter was developed as an interface between an ATR833 and the navigation software easyVFR. It implements the data transfer between the navigation software (SD) and the radio hardware (BLE  $\leftrightarrow$  RS-232). The adapter simply plugs between the existing wiring and the radio and holds to the housing thanks to the Molex Spring Lock system.

No additional power supply is necessary. The adapter can be operated with 12 V and 24 V aircraft voltage. An internal mini-fuse (125 mA) is integrated in the housing. The power supply is protected against reverse polarity and short circuits.

**No further electrical or mechanical work necessary!**

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



## 1 Radio Configuration

No further configuration is required on the radio.

## 2 Connector Pin Assignment

This is an excerpt from the f.u.n.k.e installation manual:

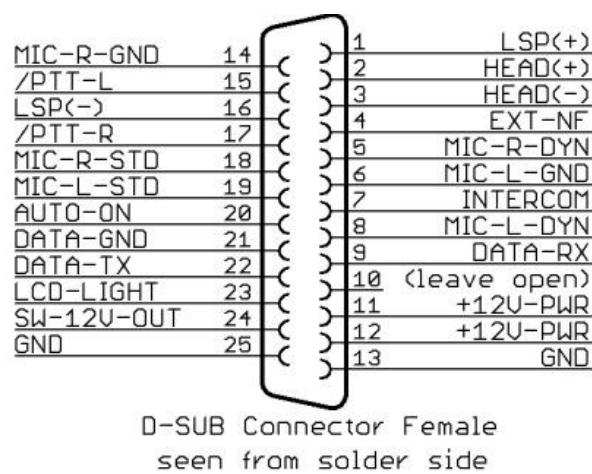


Figure 1: Old version (ATR833)

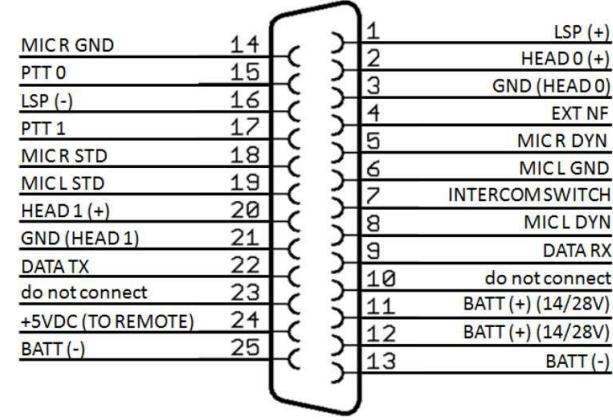


Figure 2: New version (ATR833-II)



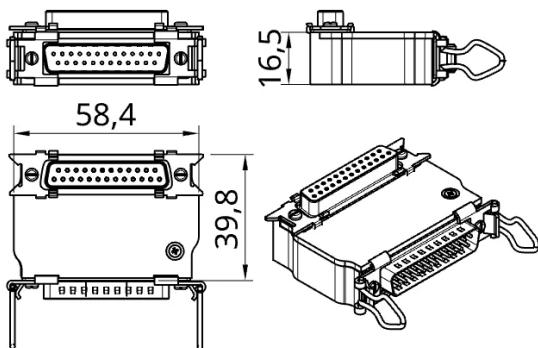
Pin	Names	Functionality
1	LSP(+)	Output external Loudspeaker Positive
2	HEAD-0 (+)	Output Headset-Speaker Positive
3	GND (HEAD-0)	Output Headset-Speaker Negative
4	EXT-NF	Input external Audio-Signal
5	MIC R DYN	Input Microphone Right Dynamic
6	MIC L GND	Input Microphone Left Ground
7	INTERCOM SWITCH	Intercom Activation Switch (connect to ground for Intercom activation)
8	MIC L DYN	Input Microphone Left Dynamic
9	DATA-RX	RS232 Receive (for Remote Control)

10	do not connect	Pin 10 is used by adapters for device identification
11	+14 / +28V-PWR	Input Power Supply +12V
12	+14 / +28V-PWR	Input Power Supply +12V
13	BATT (-)	Ground Side of Power Supply
14	MIC R GND	Input Microphone Right Ground
15	PTT-0	Push-to-Talk 0 (connect to ground for transmitting)
16	LSP(-)	Output external Loudspeaker Negative (Not identical to ground!)
17	PTT-1	Push-to-Talk 1 (connect to ground for transmitting)
18	MIC R STD	Input Microphone Right (Headset 1)
19	MIC L STD	Input Microphone Left (Headset 0)
20	HEAD 1 (+)	Output 1 Headset-Speaker Positive
21	GND (HEAD 1)	Output 1 Headset-Speaker Negative
22	DATA-TX	RS232 TX (for Remote Control)
23	N/A	do not connect
24	+5VDC OUT	5VDC Power Supply for Remote Control
25	BATT (-)	Ground Side of Power Supply

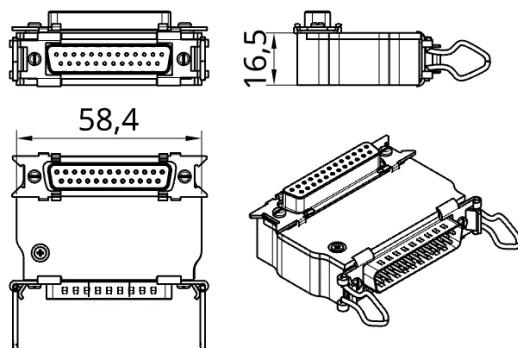
### 3 Product Variants

The orientation of the connector varies depending on the radio model. Therefore, pay attention to the direction in which the adapter should be angled. For this reason, we offer the product variants **LEFT** and **RIGHT**.

SD-ATR833-A-LEFT



SD-ATR833-A-RIGHT



Here is an overview table for orientation:

DE	Funkgerät	Gewünschte Ausrichtung	Benötigter Adapter
	ATR833-II-LCD/OLED	Zeigt nach unten	SD-ATR833-A-LEFT
	ATR833-II-LCD/OLED	Zeigt nach oben	Montage blockiert – Antennenbuchse
	ATR833A	Zeigt nach unten	SD-ATR833-A-RIGHT
	ATR833A	Zeigt nach oben	SD-ATR833-A-LEFT
	ATR833A-II-LCD/OLED	Zeigt nach unten	SD-ATR833-A-RIGHT
	ATR833A-II-LCD/OLED	Zeigt nach oben	SD-ATR833-A-LEFT
	ATR833S	Zeigt nach unten	SD-ATR833-A-LEFT
	ATR833S	Zeigt nach oben	Montage blockiert – Antennenbuchse

Hinweis: Wenn Sie unsicher sind, welchen Adapter Sie benötigen, senden Sie uns gerne ein Bild der Rückseite des Funkgeräts oder die Modellnummer an [info@sdlink.de](mailto:info@sdlink.de).

EN	Radio	Desired Orientation	Required Adapter
	ATR833-II-LCD/OLED	Points downward	SD-ATR833-A-LEFT
	ATR833-II-LCD/OLED	Points upward	Mounting blocked – Antenna socket
	ATR833A	Points downward	SD-ATR833-A-RIGHT
	ATR833A	Points upward	SD-ATR833-A-LEFT
	ATR833A-II-LCD/OLED	Points downward	SD-ATR833-A-RIGHT
	ATR833A-II-LCD/OLED	Points upward	SD-ATR833-A-LEFT
	ATR833S	Points downward	SD-ATR833-A-LEFT
	ATR833S	Points upward	Mounting blocked – Antenna socket

Note: If you are unsure which adapter you need, please send us a picture of the back of your radio or provide the model number at [info@sdlink.de](mailto:info@sdlink.de).

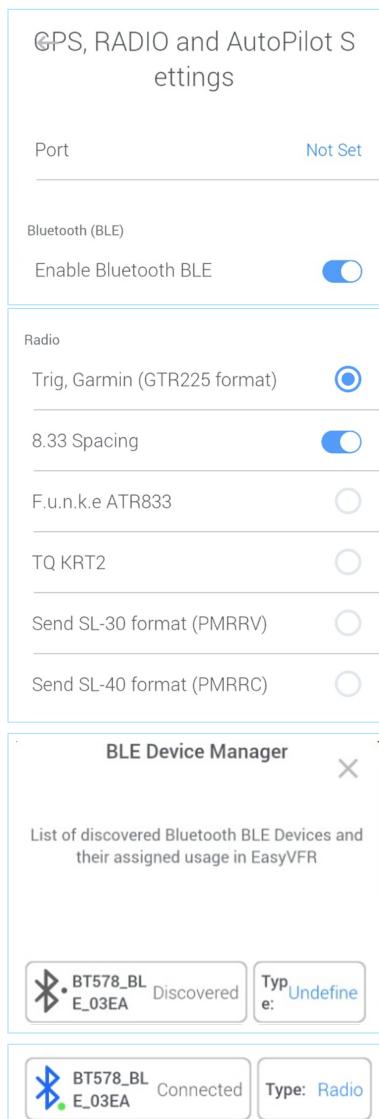
**Note:** If you have questions about variant selection, we are happy to help via email at [info@sdlink.de](mailto:info@sdlink.de).

## 4 Configuration in EasyVFR

**Important:** The adapter is not connected via regular Bluetooth settings. BLE devices are usually not displayed there.

### 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-ATR833**)
4. Tap the Type until **Radio** is set (cycle: AutoPilot / GPS/Traffic / Radio / undefined)
5. EasyVFR connects; indicated by "Connected" (incl. Bluetooth icon).

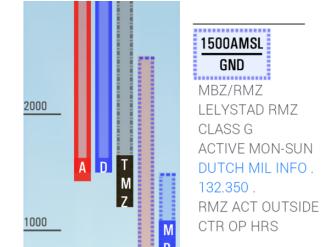
#### 4.1.4 Send frequencies (Remote Tuning)

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

**Airspaces Info**



1500AMSL  
GND  
MBZ/RMZ  
LELYSTAD RMZ  
CLASS G  
ACTIVE MON-SUN  
DUTCH MIL INFO.  
132.350  
RMZ ACT OUTSIDE  
CTR OP HRS

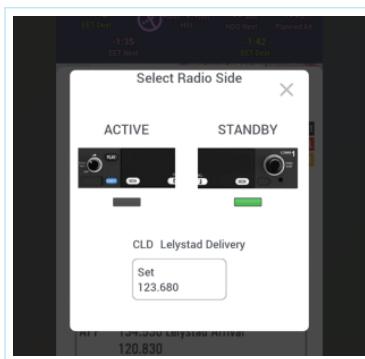
**Radio and Position**

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:

**LayCom Vision GmbH – SD-Link**

Michael Hoffmann

Chausseestr. 46

D-15518 Rauen, Germany

Email: [info@sdlink.de](mailto:info@sdlink.de)

Phone: +49 3361 710253

