

INSTALLATION MANUAL

f.u.n.k.e ATR833 Adapter BLE Bluetooth

EasyVFR · EXPERIMENTAL

Bluetooth Low Energy adapter (BLE) that handles the data transfer between the navigation software and a f.u.n.k.e ATR833 VHF transceiver (aviation radio) (BLE ↔ RS-232). The adapter simply connects to the radio – **no further electrical work required.**



SPECIFICATIONS

RADIO	f.u.n.k.e ATR833
COMPATIBILITY	ATR833 · -A · -S · -II-LCD · -II-OLED · -A-II
OPERATING SYSTEM	Android · iOS
INTERFACE	BLE ↔ RS-232
POWER SUPPLY	via the radio · 5–28 V
INTEGRATED FUSE	yes · not self-resetting
REQUIREMENT	radio from SW 5.8
WEIGHT	50 g
DIMENSIONS	58,4 × 52,45 × 16,5 mm

IMPORTANT

This is a prototype for experimental use only!

1 Radio Configuration

IMPORTANT

Supported are ATR833-S, ATR833-A and ATR833-II-OLED from software SW 5.8. Older versions (≤ 5.7) are not compatible. First supported serial number: 40131610 (2010). Tip: the last two digits of the serial number = year of production.

No further configuration is required on the radio.

2 Connector Pin Assignment

IMPORTANT NOTICE

Power supply via pins 8/9

The SD-Link is powered by the radio via pins 8/9 – no separate power supply is required. If the adapter stays dark, missing supply on these pins is the most common cause. In that case, first check whether voltage is present there.

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

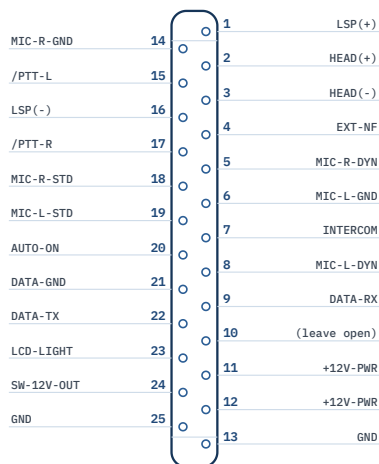


Figure 1 · Old Version (ATR833)

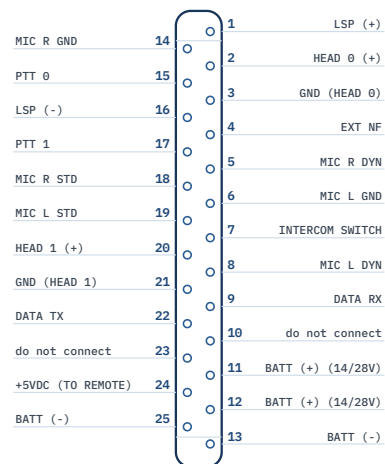


Figure 2 · New Version (ATR833-II)

D-SUB 25-Pin · Pin Allocation in Detail

D-SUB 25-pin female connector, solder side. Complete allocation according to the f.u.n.k.e manual.

PIN	NAME	FUNCTION
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

Source: f.u.n.k.e manual.

3 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.**

3.1 Enable Bluetooth and select radio

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

GPS, RADIO and AutoPilot Settings

Port Not Set

Bluetooth (BLE)

Enable Bluetooth BLE ☒

Radio

Trig, Garmin (GTR225 format) ☒

8.33 Spacing ☒

F.u.n.k.e ATR833 ☐

TQ KRT2 ☐

Send SL-30 format (PMRRV) ☐

Send SL-40 format (PMRRC) ☐

BLE Device Manager



List of discovered Bluetooth BLE Devices and their assigned usage in EasyVFR

 BT578_BLE_03EA Discovered	Type: Undefine
 BT578_BLE_03EA Connected	Type: Radio

3.1.1 Enable Bluetooth BLE in EasyVFR

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

3.1.2 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.

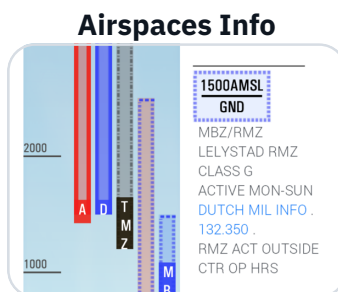
3.1.3 Open BLE device list and assign adapter

- 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).

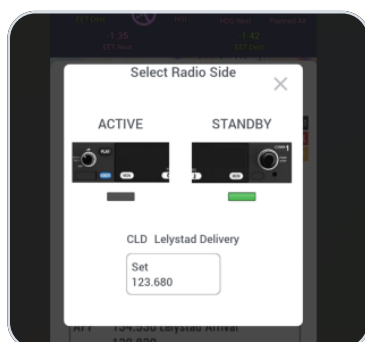
3.1.4 Send frequencies (Remote Tuning)

- 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	
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**.

3.1.5 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)

4 Contact

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

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