

INSTALLATION MANUAL

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

SkyDemon (SD) · 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 · 12/24 V · up to 28 V
INTEGRATED FUSE	yes · not self-resetting
REQUIREMENT	radio from SW 5.8
WEIGHT	50 g
DIMENSIONS	58,4 × 39,8 × 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:

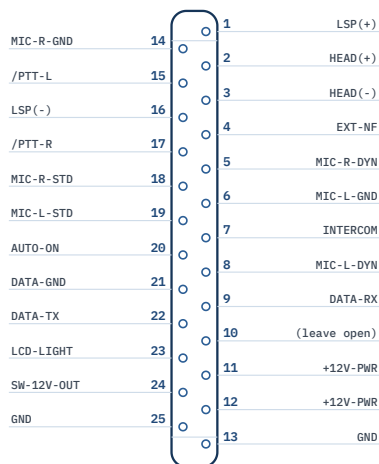


Figure 1 · Old version (ATR833)

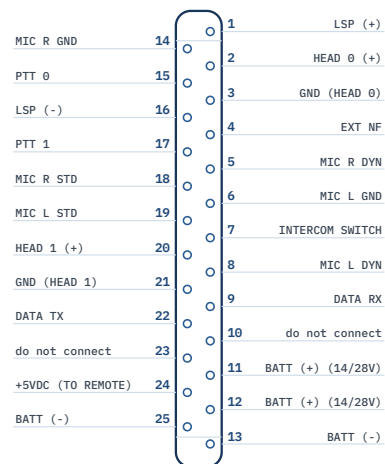


Figure 2 · New version (ATR833-II)

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.

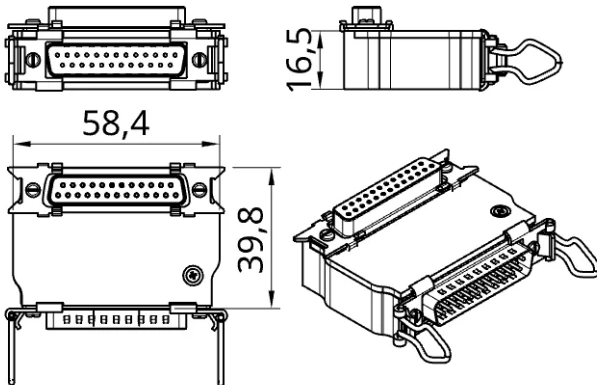
PIN	NAME	FUNCTION
1	LSP (+)	Output external Loudspeaker Positive
2	HEAD-0 (+)	Output Headset-Speaker Positive
3	GND (HEAD-0)	Output Headset-Speaker Negative
4	EXT-NF	Input external Audio-Signal
5	MIC R DYN	Input Microphone Right Dynamic
6	MIC L GND	Input Microphone Left Ground
7	INTERCOM SWITCH	Intercom 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.

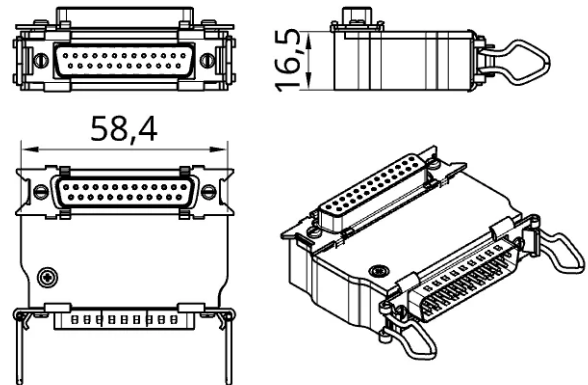
3 Product Variants

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:

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.

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.

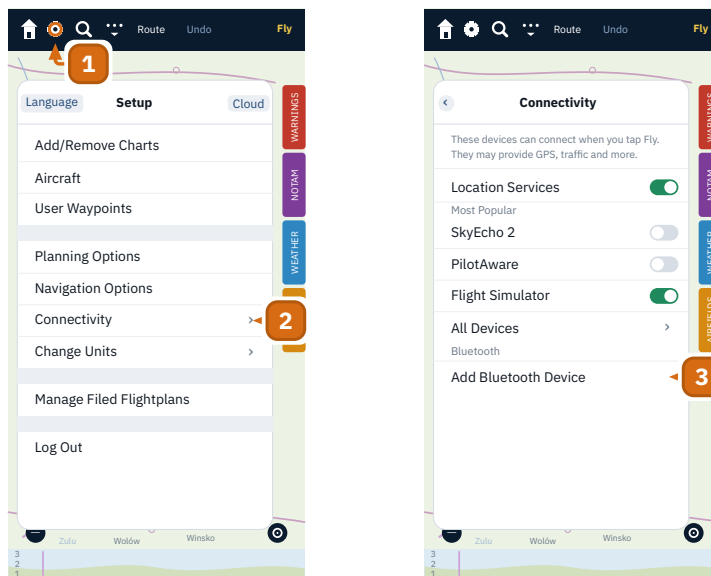
Regular Bluetooth devices such as headsets, intercoms or speakers can still be used in parallel. They are paired via the operating system as usual. The SD-Link, however, is addressed directly by the navigation app.

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.

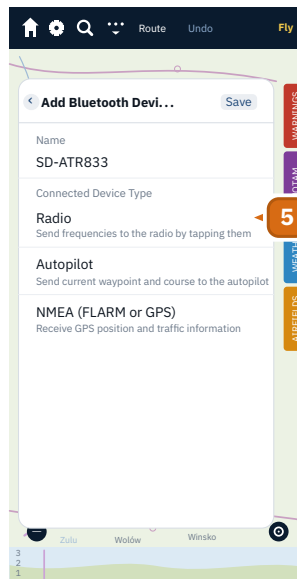
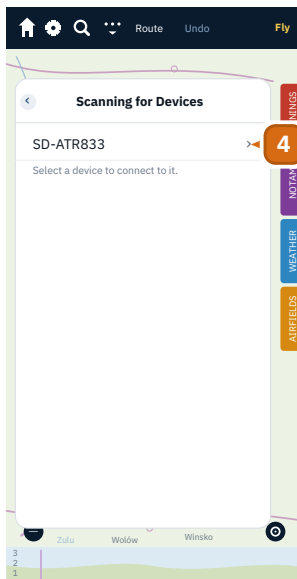
REMEMBER

**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.

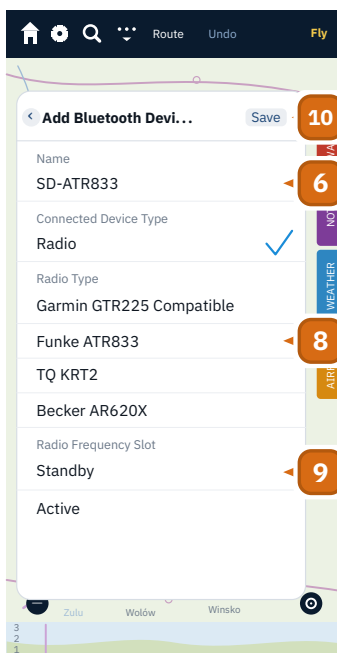


- ① Open the **Setup** menu via the gear icon.
- ② Choose **Connectivity**.
- ③ Under **Bluetooth** choose **Add Bluetooth Device**.



④ Wait until the search has finished (this can take a moment), then select the entry **SD-ATR833**.

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 **Funke ATR833**.

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 Funke ATR833** is fixed for the SD-ATR833-A.

5 Contact

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

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