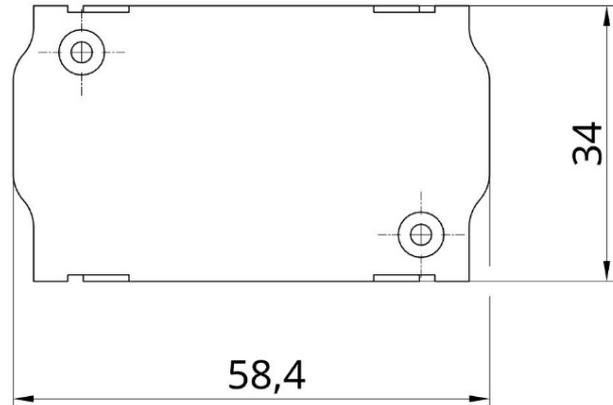


f.u.n.k.e ATR833 - Adapter BLE Bluetooth Dual Source

SkyDemon (SD) EXPERIMENTAL



The Bluetooth Low Energy (BLE) adapter for a f.u.n.k.e ATR833 VHF transceiver (aviation radio) is compatible with the following devices: ATR833, ATR833S, ATR833A, ATR833-II, ATR833A-II. The adapter was developed as an interface between an ATR833 and the Skydemon (SD) navigation software. It implements the data transfer between the navigation software (SD) and the radio hardware: BLE <-> RS-232. The adapter is simply plugged in between the existing wiring and the radio and holds itself onto the housing using the Molex Spring-Lock system. No additional power supply is required. The adapter operates on both 12 V and 24 V aircraft power. An internal self-resetting fuse is integrated in the housing. The power supply is protected against reverse polarity and short circuits. The adapter also works if an EFIS is already connected to the radio.

No further electrical or mechanical work required!

Please note: This is a prototype for experimental use only!

1. Configuration of the radio

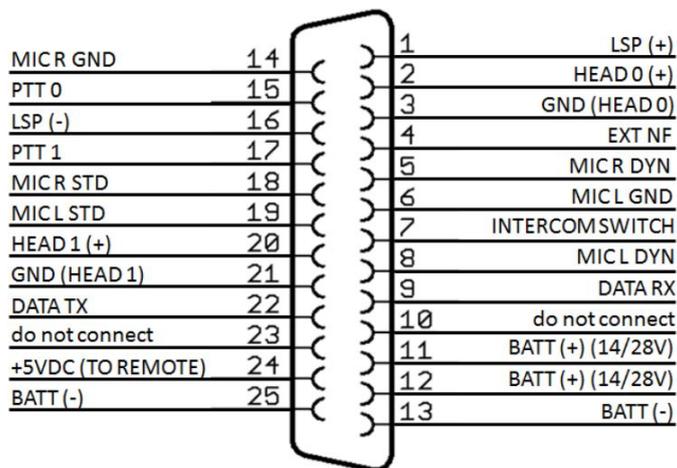
No additional configuration of the radio is necessary.

2. Connector pinout

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

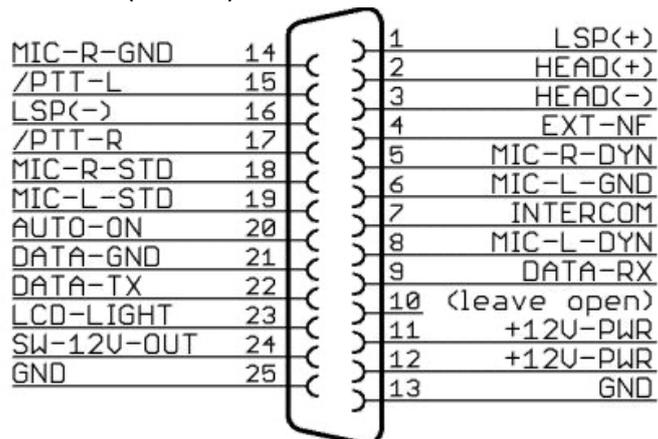
New version (ATR833-II)

4.7.2 Connector – Pin Allocation



D-SUB Connector 25 Pin Female
seen from solder side

Old version (ATR833)



D-SUB Connector Female
seen from solder side

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. Contact

For issues, questions, suggestions, or even positive feedback, please contact:

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