

Wiring the Teensy-SDR

Connections to the Teensy Adapter board

<u>Display</u>	<u>Adapter board</u>	<u>Rpi Display</u>
Reset	Tx	13
CS	2	24
D/C - RS	3	15
SDI/MOSI	4	19
SCK	5	23
GND	GND	6
Vcc	+3.3V	1
LED-Backlight	+3.3V or +5V	2

<u>Front-end</u>	<u>Adapter board</u>
I2C-C1	Analog In-5 SCL
I2C-C2	Analog In-4 SDA
GND	GND
5V	+5V

<u>Encoder</u>	<u>Adapter board</u>
A of B	Analog In-3
B of A	Analog In-2
GND	GND
Switch	8
GND	GND

Connections soldered directly to the Teensy

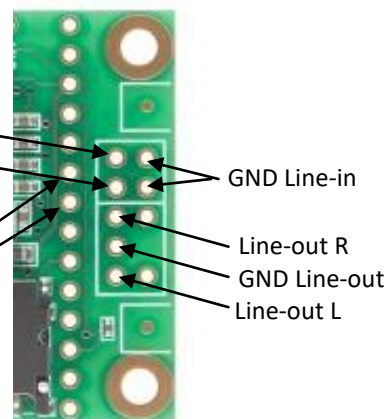
<u>Pushbutton</u>	<u>Teensy</u>	
Pushbtn 2	24 (back side)	Band-Down / Playback
Pushbtn 5	25 (back side)	Menu - 2
Pushbtn 3	26 (back side)	Mode / Stop recording
VBat	28 (back side)	RTC battery voltage

Connections to the Audio board

<u>Front-end</u>	<u>Audio board</u>
I of Q	Line-in Left
Q of I	Line-in Right
GND	Line-in GND

<u>Pushbutton</u>	<u>Audio board</u>	
Pushbtn 1	A7 (left of Line-in)	Band-Up / Rec.
Pushbtn 4	A6 (left of line-in)	Menu - 1

<u>Volume potmeter</u>	<u>Audio board</u>
Left-Center-Right	GND-VOL-3.3V



Headphone connection (3.5mm Jack).

**Be care not to connect the Headphone ground to the overall ground. This will damage the audio chip!!
Use the Line-out connections on the audio board for that case.**

Calibrating the VFO: The frequency on pin A13 of the Front-end board = Display frequency (Hz) – 5515 Hz