

# Wiring the Teensy-SDR

## Connections to the Teensy Adapter board

<u>Display</u>	<u>Adapter board</u>
Reset	Tx
CS	2
D/C	3
SDI/MOSI	4
SCK	5
GND	GND
Vcc	+3.3V
LED	+3.3V of +5V

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

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

## Connections directly to the Teensy

<u>Pushbutton</u>	<u>Teensy</u>	
Pushbtn 2	24 (back side)	Band-Up / Playback
Pushbtn	25 (back side)	Menu – 2
Pushbtn	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 4 Wit	A6 (behind Line-in)	Menu – 1
Pushbtn 1 Oranje	A7 (behind line-in)	Band-Down / Recording

<u>Volume potmeter</u>	<u>Audio board</u>
L-M-R	GND-VOL-3.3V

### Headphone connection (3.5mm Jack).

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

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