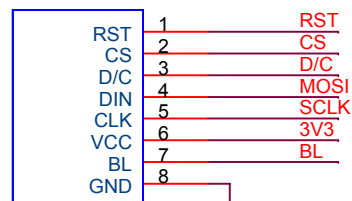
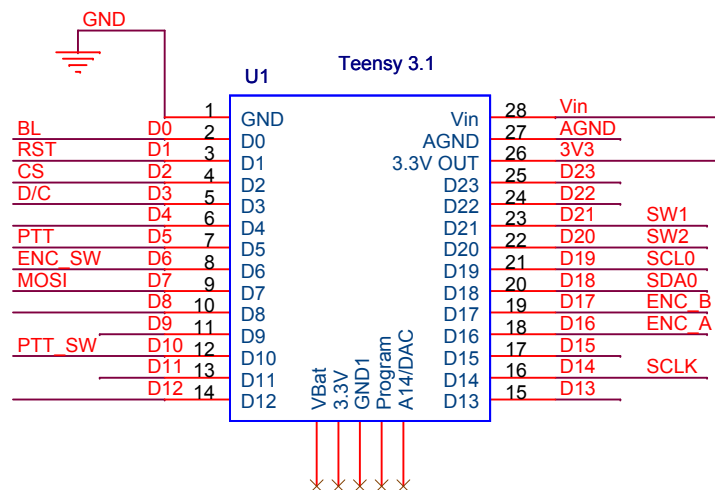


Note: The Banggood 1.8" display has a 5v->3.3v regulator on board
Jumper the regulator to use 3.3v supply

U5 SPI TFT DISPLAY

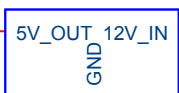


Note: HW SPI display connections shown
Teensy SPI pins must be remapped - see source code



For best efficiency use a
12v-> 5v switching regulator

U6 Regulator



C1

0.1u

U3 SI5351A



Y1

25MHz

SCL0

SDA0

MCLK

C2

0.1u

SW1

SW2

ENC_A

ENC_B

ENC_SW

PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

ENC_A

ENC_B

ENC_SW

PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

ENC_A

ENC_B

ENC_SW

PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

ENC_A

ENC_B

ENC_SW

PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

ENC_A

ENC_B

ENC_SW

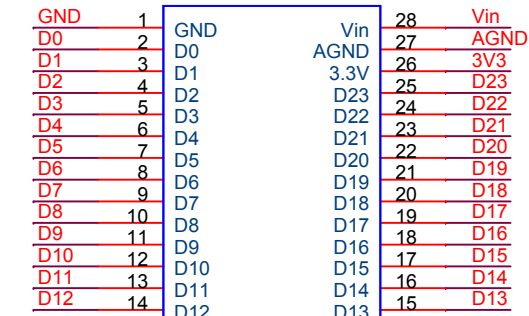
PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

U2 Teensy Audio Shield



J1 BNC

12V

PTT

PTT_IN

PTT_OUT

OUT_L

OUT_R

IN_L

IN_R

Phones

X4CLK

X8CLK

MCLK

ENC_A

ENC_B

ENC_SW

PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

ENC_A

ENC_B

ENC_SW

PTT_SW

Electret Mic

10k Volume Pot

PTT Switch

SoftRock Ensemble should work if the Tiny85 is removed and Teensy SDA0 and SCL0 are connected to Si570 SDA and SCL. An SI570 library must be used for tuning in this case. This has NOT been tested.

Note: D9,D11,D13,D15,D22,D23 are mapped to the Audio Shield - DO NOT USE.
D6,D7,D10,D12,D14 can be used if no SD card is inserted. USE WITH CAUTION.

Title		
Teensy SDR Wiring Diagram		
Size	Document Number	Rev
A	By Rich Heslip VE3MKC	1.0
Date: Monday, April 13, 2015		Sheet 1 of 1