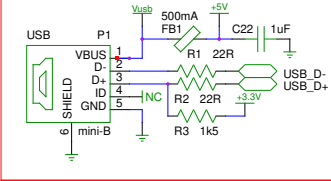


USB PORT

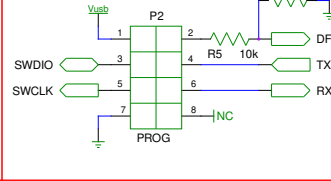
The diagram illustrates the electrical connections for a USB port using a mini-B connector. The USB shield is connected to the mini-B connector pins. The circuit includes a 500mA fuse (FB1) on the VBUS line, a 22R resistor (R1) connected to a -5V supply, a 22R resistor (R2) connected to a +3.3V supply, and a 1k5 resistor (R3) connected to ground. A 1uF capacitor (C22) is connected between the -5V supply and ground.



PROGRAMMING PORT

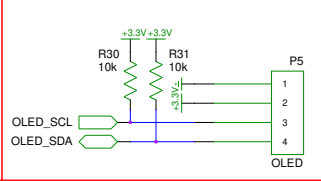
The diagram illustrates the programming port connections for the ATtiny13 microcontroller. The P2 pin header is shown with the following connections:

- Pin 1: Vcc
- Pin 2: 100k resistor (R4) to GND
- Pin 3: SWDIO
- Pin 4: 10k resistor (R5) to GND
- Pin 5: SWCLK
- Pin 6: RX
- Pin 7: GND
- Pin 8: NC (No Connection)



DISPLAY PORT

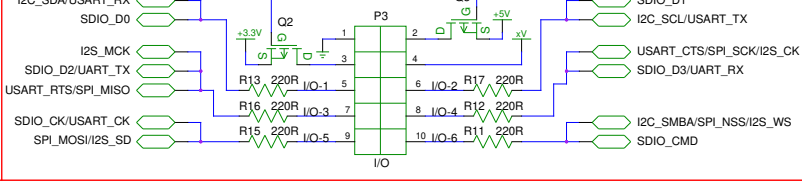
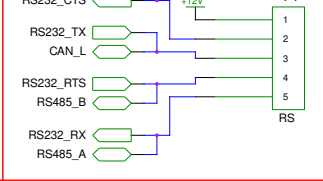
The diagram illustrates the connection of the OLED display to the microcontroller. The microcontroller pins OLED_SCL and OLED_SDA are connected to the SCL and SDA pins of the OLED module. The OLED module is powered by a +3.3V supply through a 10k resistor (R30) and a -3.3V supply through a 10k resistor (R31). The OLED module is labeled P5.



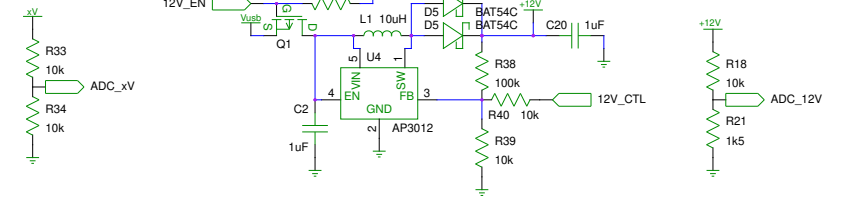
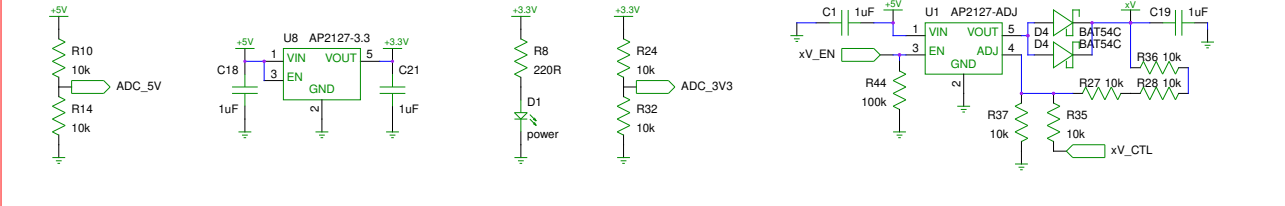
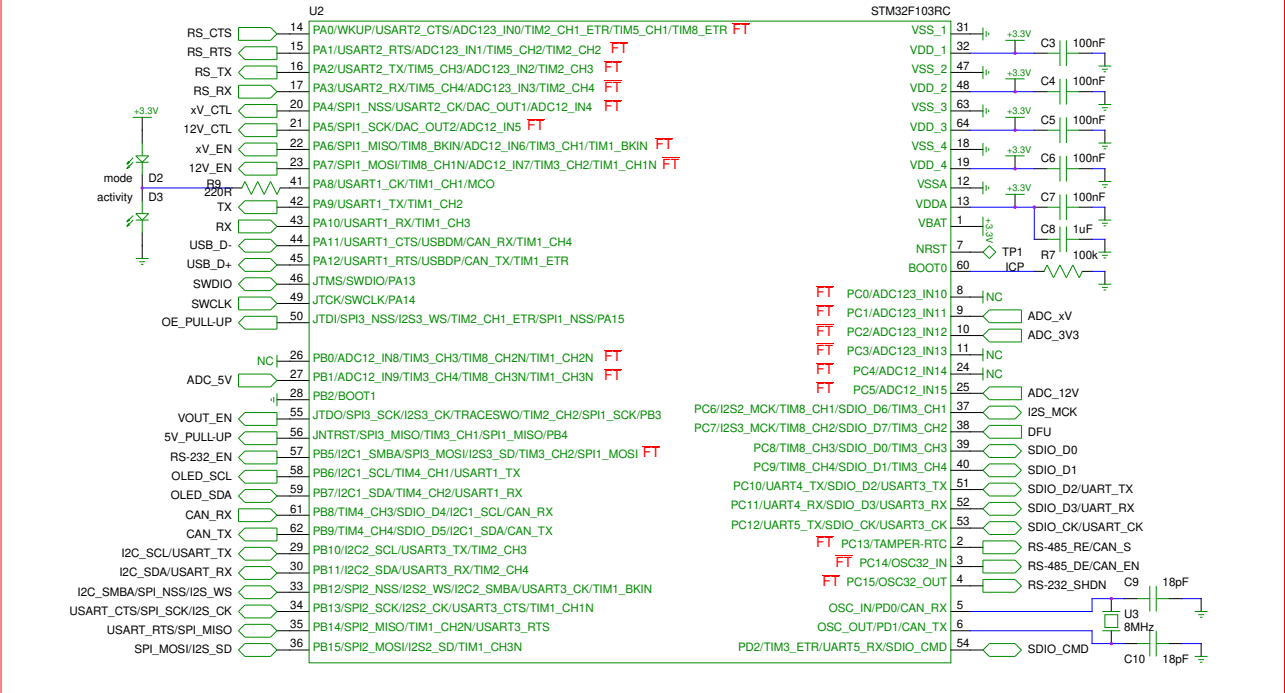
RS/CAN PORT

Diagram illustrating the RS/CAN PORT connections:

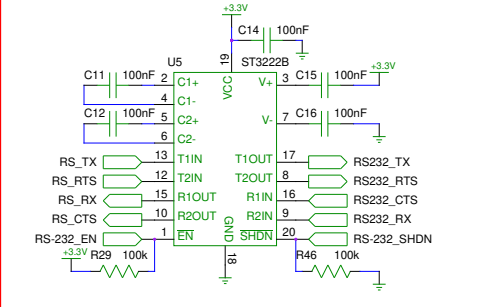
- CAN_H
- RS232_CTS
- RS232_TX
- CAN_L
- RS232_RTS
- RS485_B
- RS232_RX
- RS485_A
- +12V
- P4 (Pin 1, 2, 3, 4, 5)
- RS



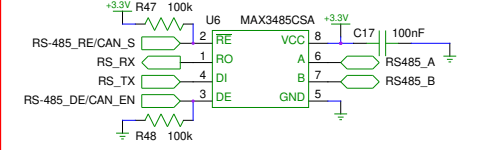
POWER CONTROL

[illegible]

RS-232 TRANSCEIVER

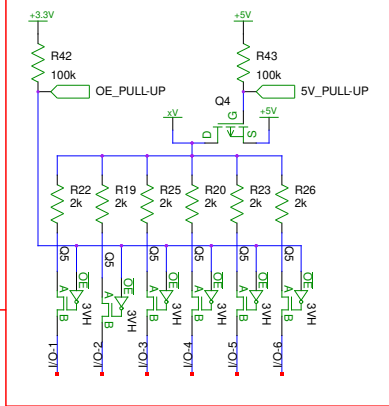
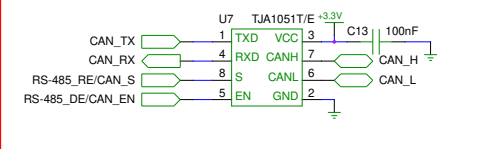


RS-485/RS-422 TRANSCEIVER



CAN TRANSCEIVER

The diagram shows the pin configuration for the TJA1051T/E CAN transceiver. The IC is powered by a +3.3V supply (pin 3) and ground (pin 2). It has two CAN bus lines: CAN_H (pin 7) and CAN_L (pin 6), each with a 100nF capacitor to ground. The IC also has two RS-485 lines: RS-485_RE/CAN_S (pin 8) and RS-485_DE/CAN_EN (pin 5). The TXD (pin 1) and RXD (pin 4) pins are also shown.



ACCESSORIES

case

ESD bag

case + logic analyzer

cable

OLED display

TITLE:

BusVoodoo

DATE: 2017-12-05

VERSION: 0

REVISION: 18

ORGANISATION: CuVoodoo

AUTHORS: King Kevin

LICENCE: CERN OHL v.1.2

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