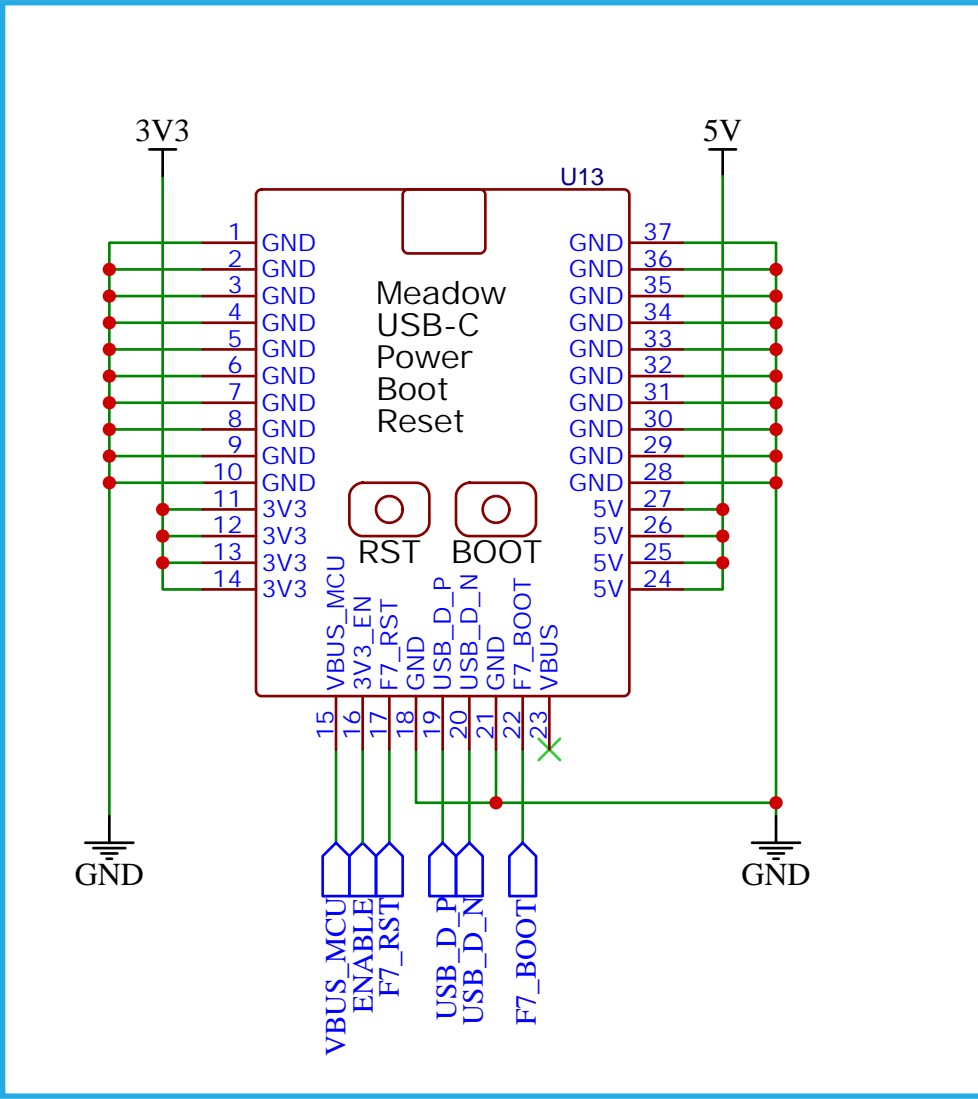
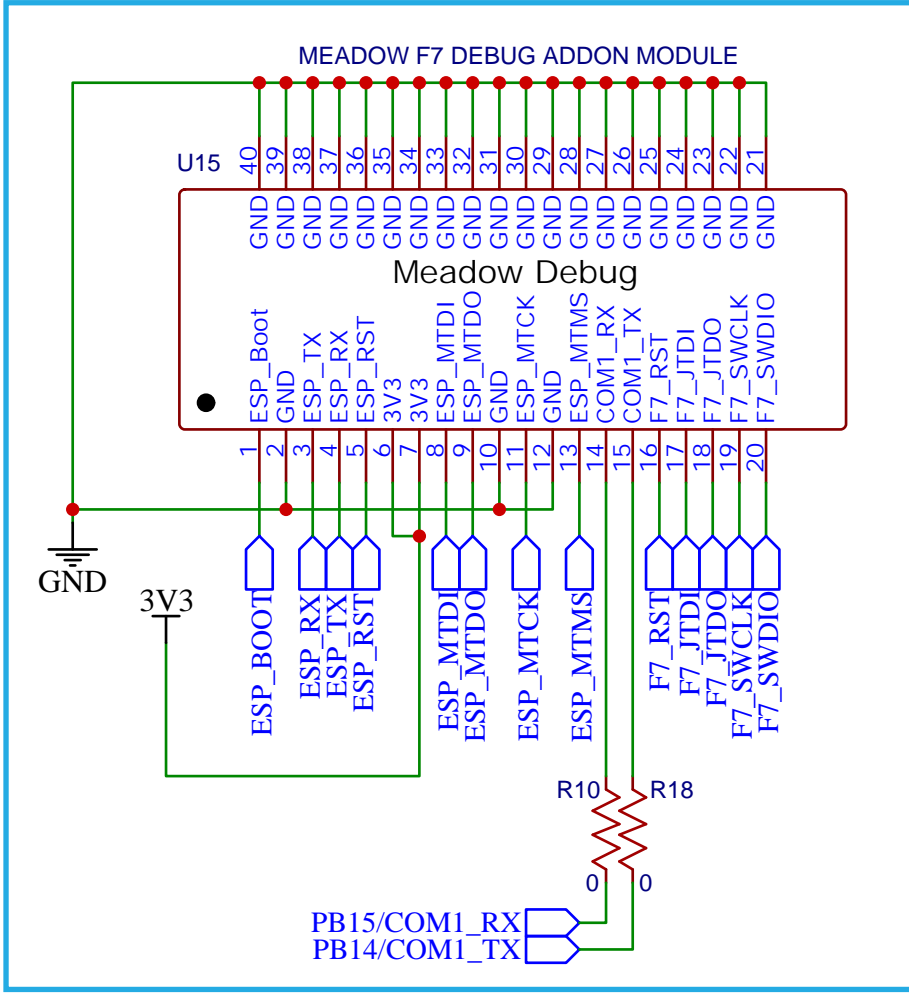


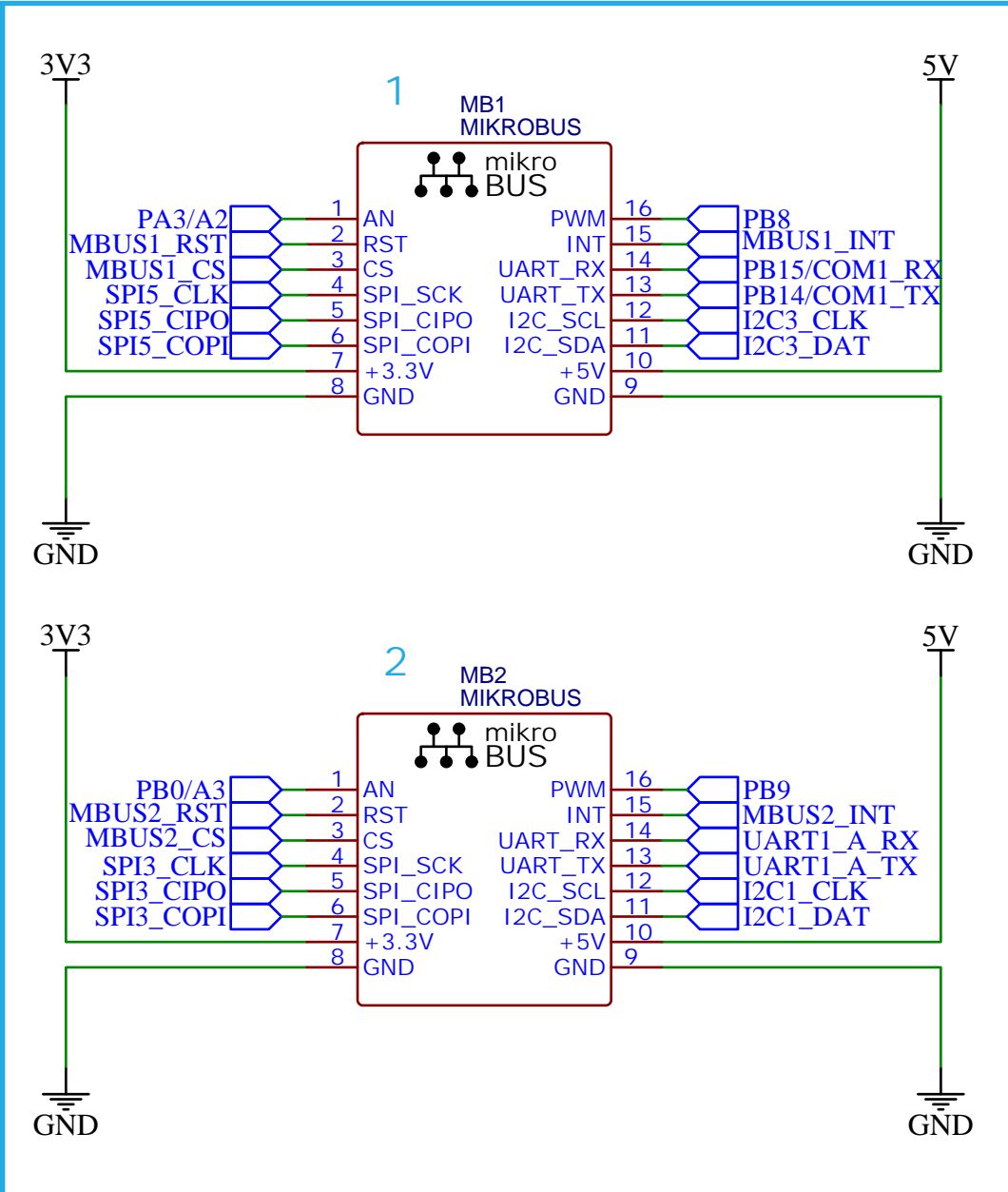
USB/Boot/Reset



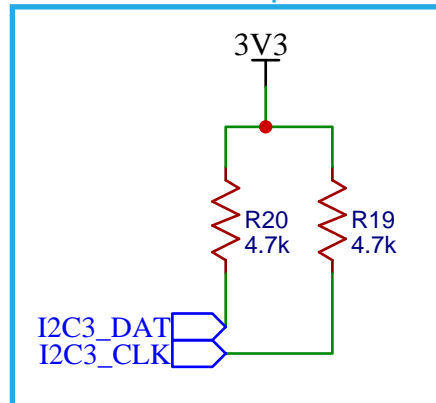
Debug Header



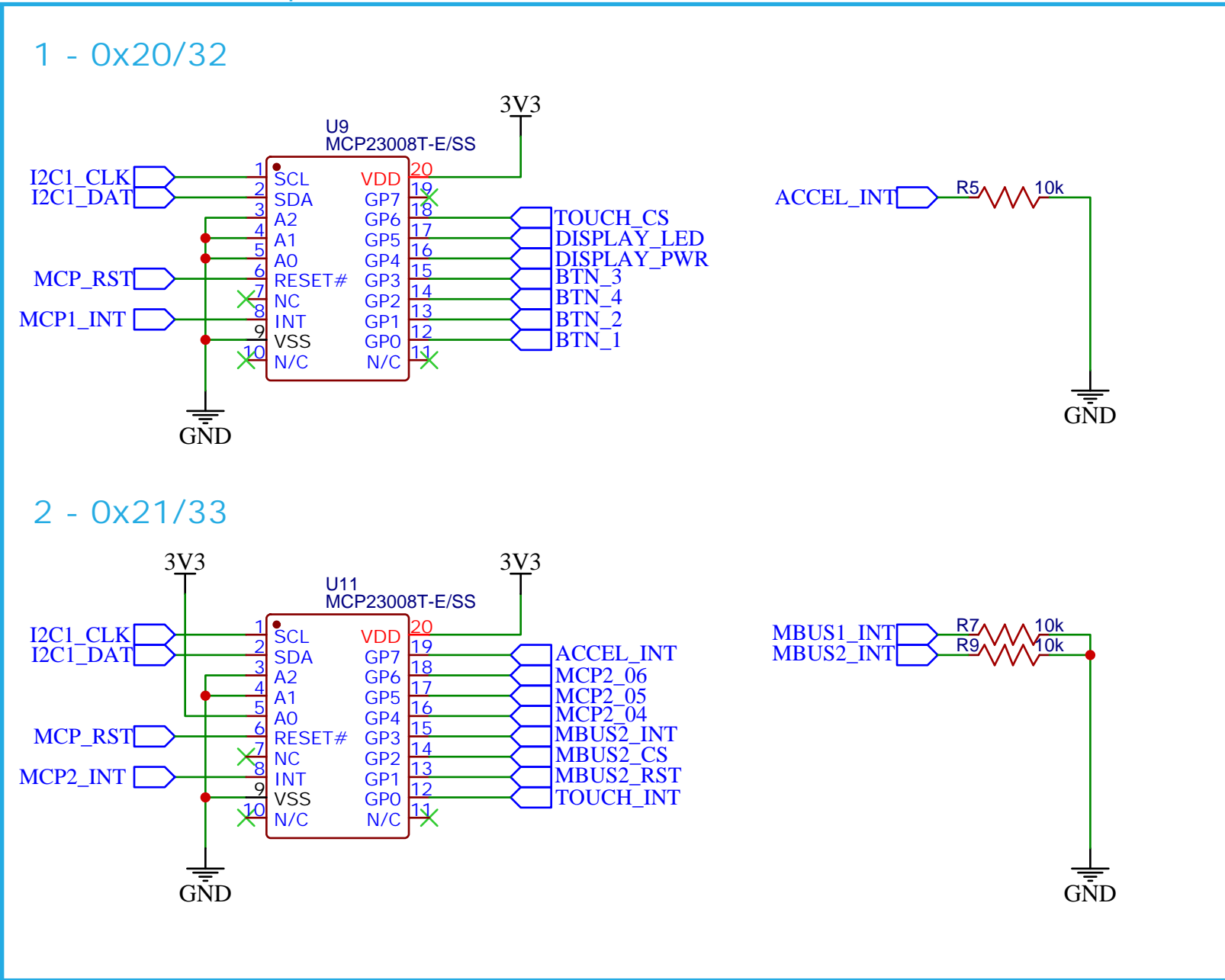
mikroBUS



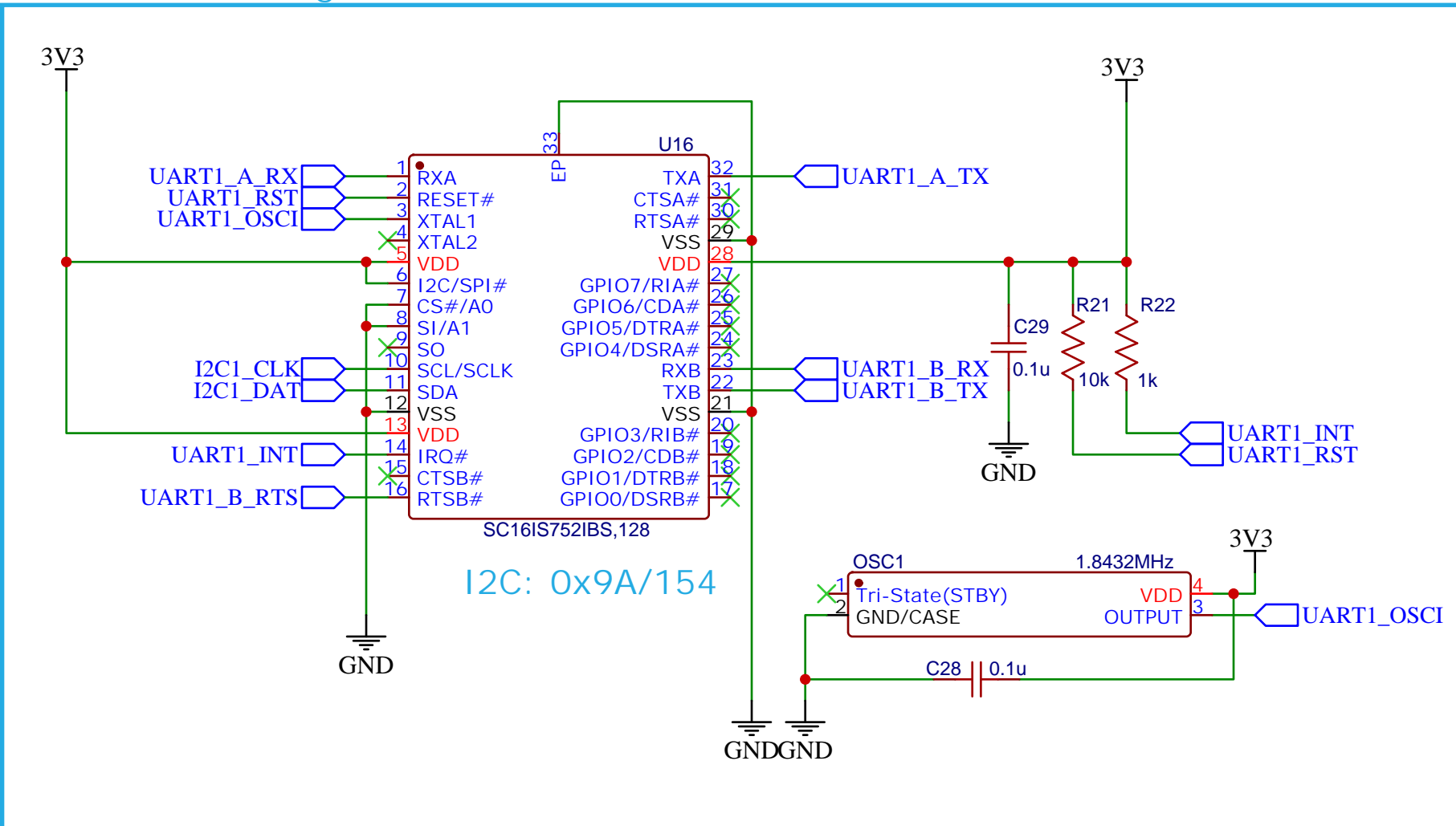
I2C3 Pull-Ups



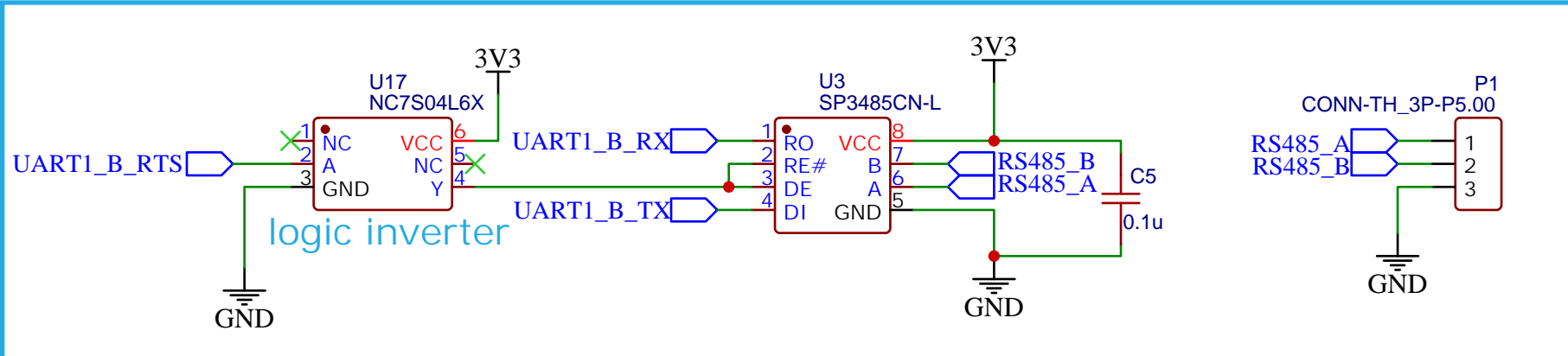
MCP23008 IO Expanders



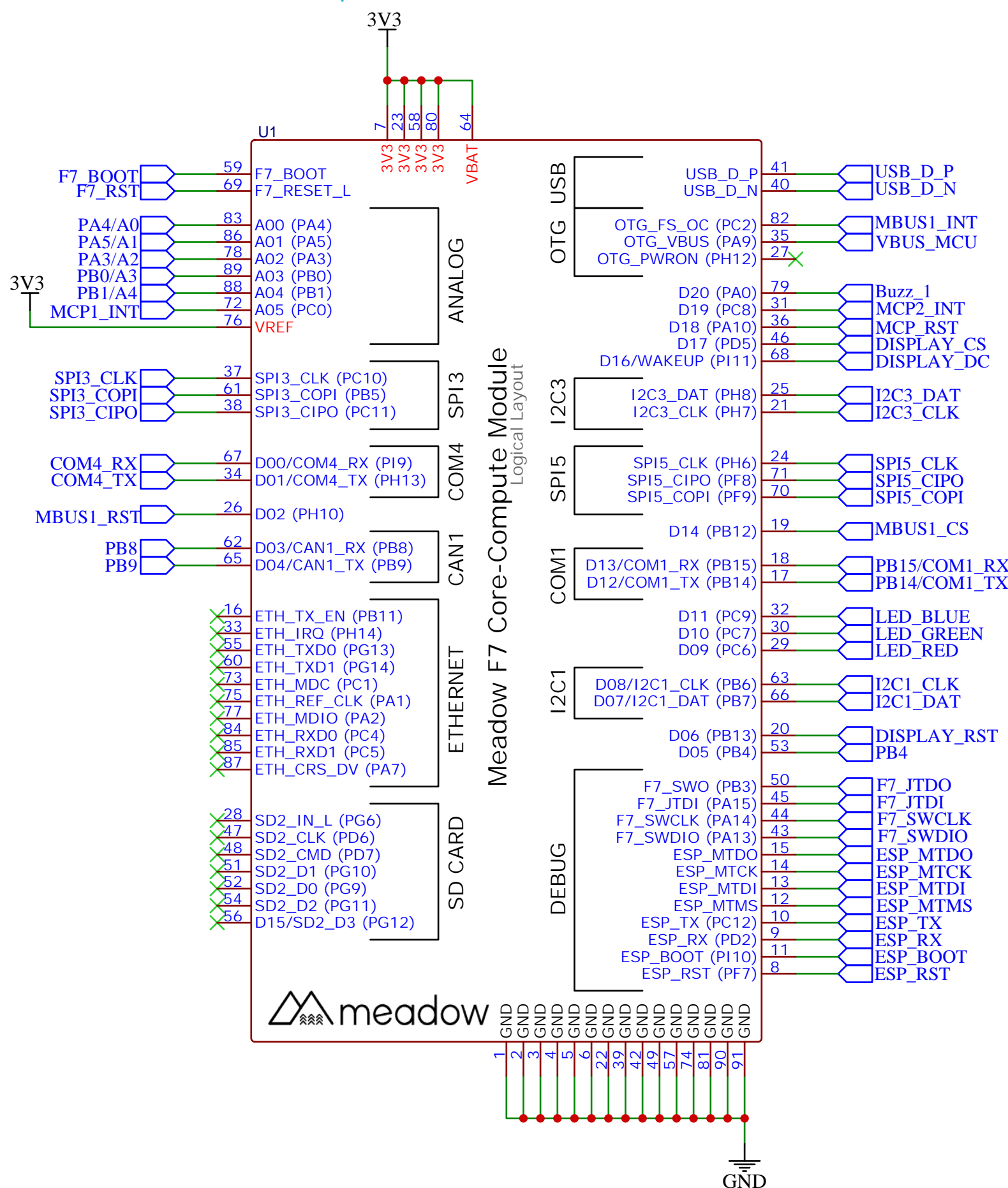
I2C -> UART Bridge



RS-485



Meadow F7 Core-Compute



Reserved Interrupts

10, 12, 13

Interrupt Table

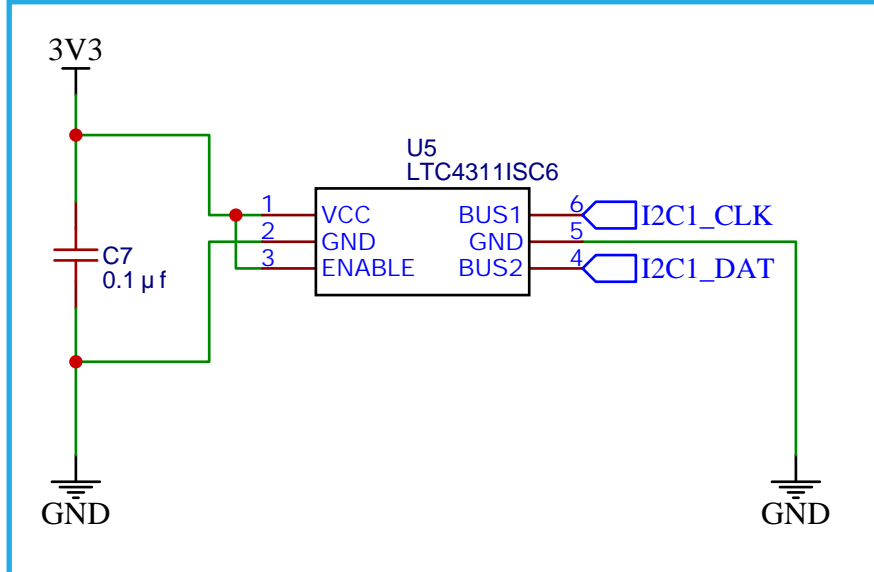
| | |
|--------------|----|
| MCP1_INT | 00 |
| MCP2_INT | 08 |
| MBUS1_INT | 02 |
| Grove (A0) | 04 |
| Grove (A1) | 05 |
| Grove (PB14) | 14 |
| Grove (PB15) | 15 |
| IO1_A1 | 01 |
| IO1_2 | 09 |
| IO1_3 | 07 |
| Grove (PB4) | 04 |

PWM Timers

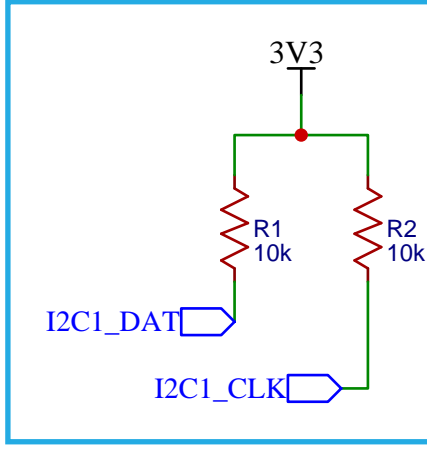
| | |
|-----------|---------|
| RGB_RED | TIM8_1 |
| RGB_GREEN | TIM3_2* |
| RGB_BLUE | TIM8_4 |
| BUZZ_1 | TIM2_1 |
| PB8 | TIM4_3 |
| PB9 | TIM4_4 |

*Note. D10 (PC7) can be configured as TIM8_2 but requires Meadow.Core change.

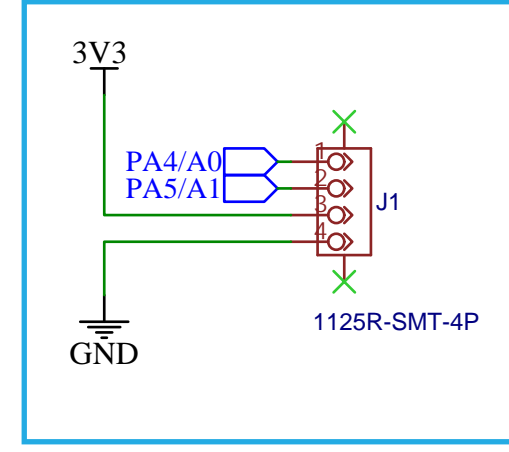
I2C Accelerator



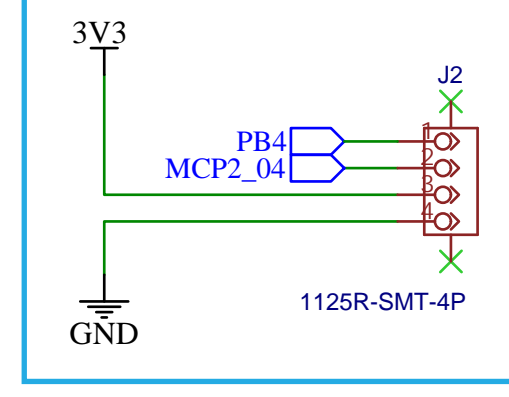
I2C Accel Pull-Ups



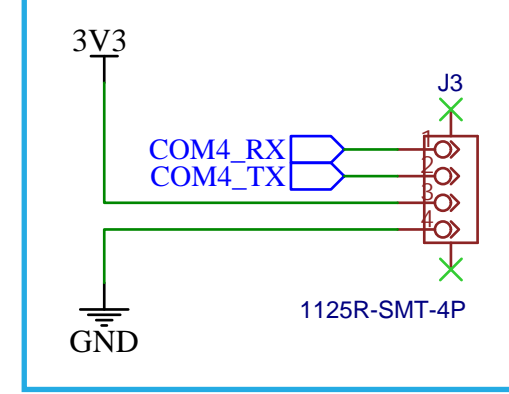
Grove Analog/Digital



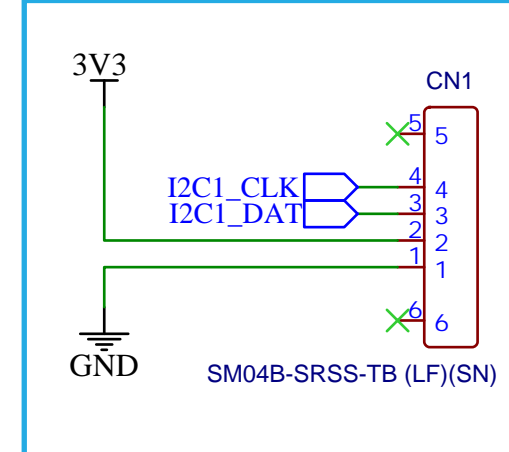
Grove Digital 2



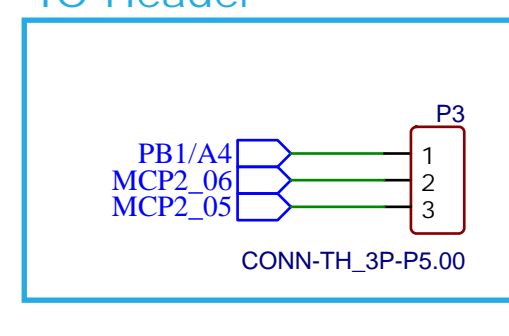
Grove UART/Digital



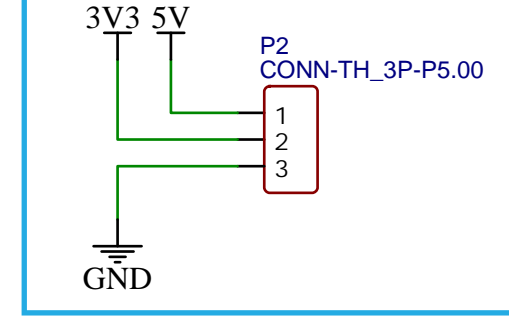
Qwiic/Stemma QT I2C



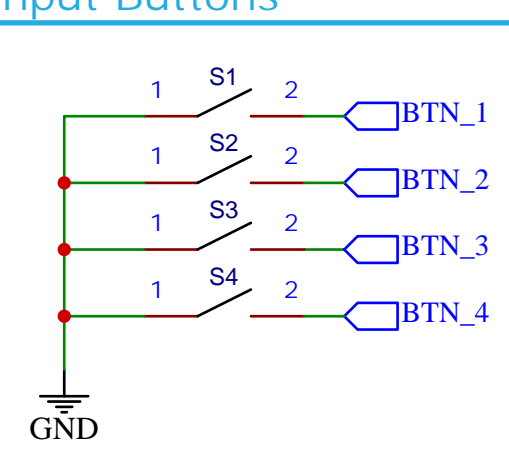
IO Header



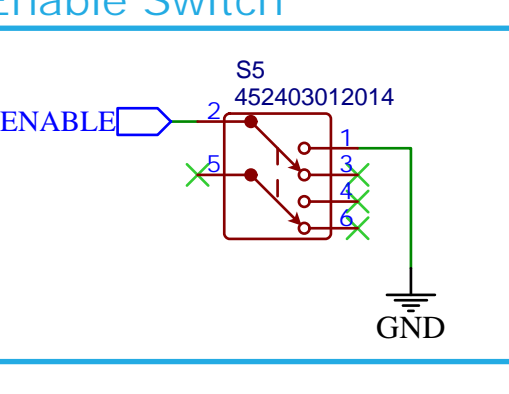
Power Header



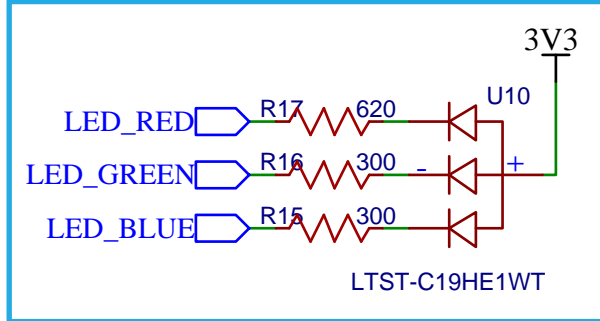
Input Buttons



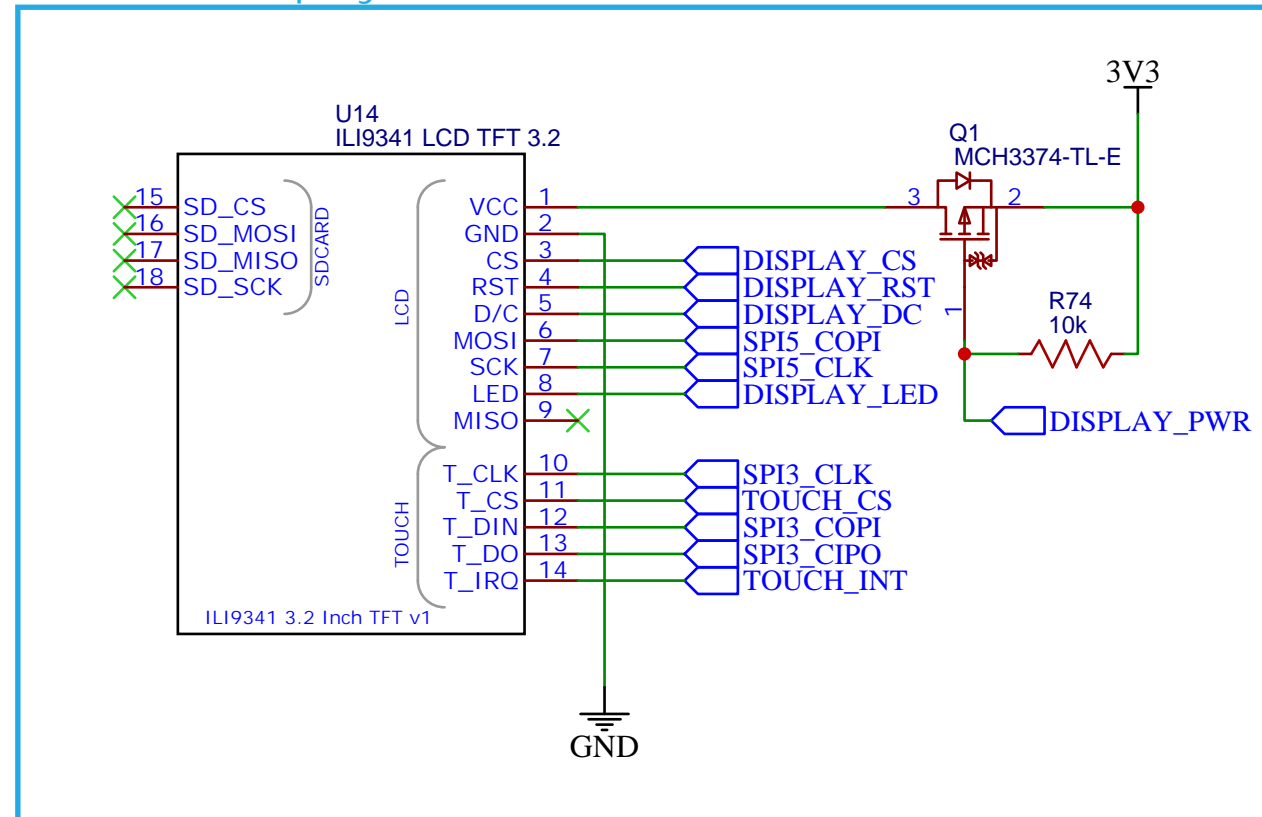
Enable Switch



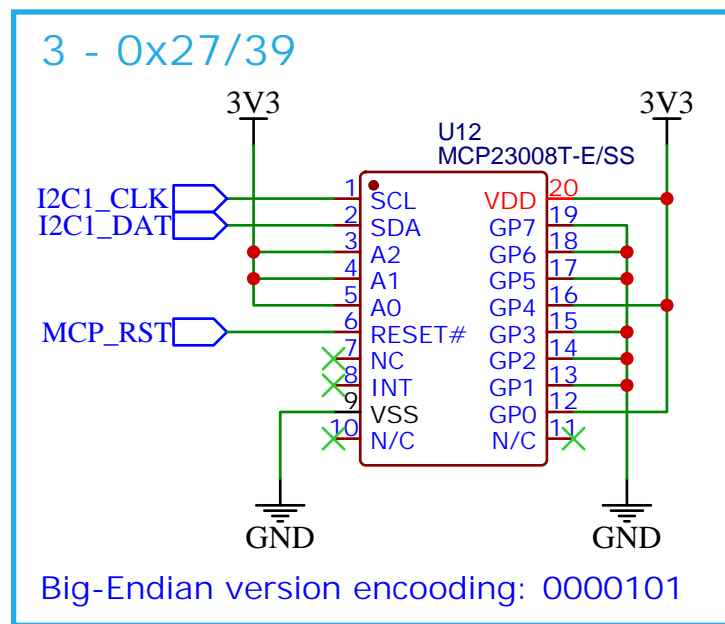
RGB LED



3.2" TFT Display



MCP23008 Version Info



Stackup/Controlled Impedance (JLC7628 Stackup):

USB: 90 Die Pair

Outer layer: 0.19mm width, 0.1mm spacing

Inner layer: 0.13mm width, 0.1mm spacing

WILDERNESS LABS

TITLE: Project Lab

Company: Wilderness Labs

Date: 2024.05

Drawn By: bryan costanich

REV: v4.a

Sheet: 1/1