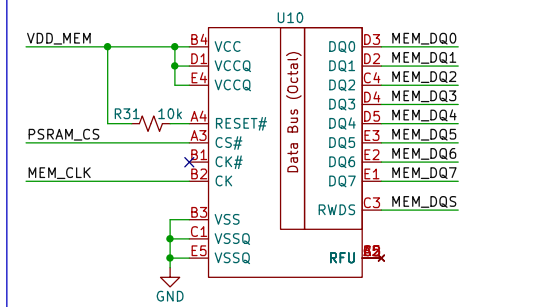
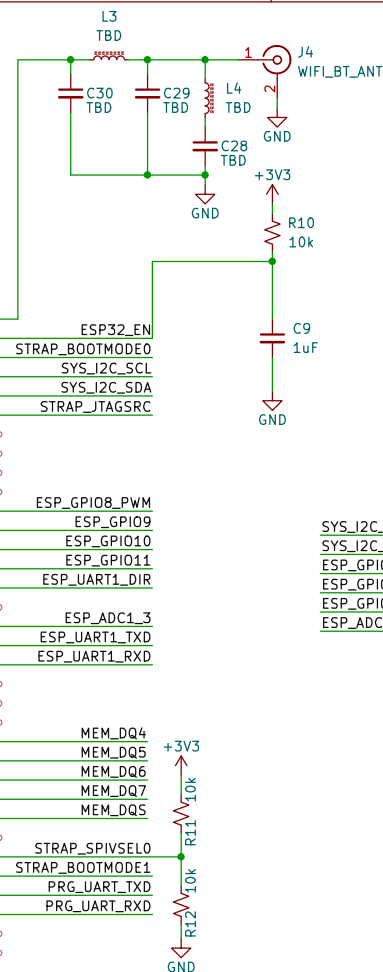
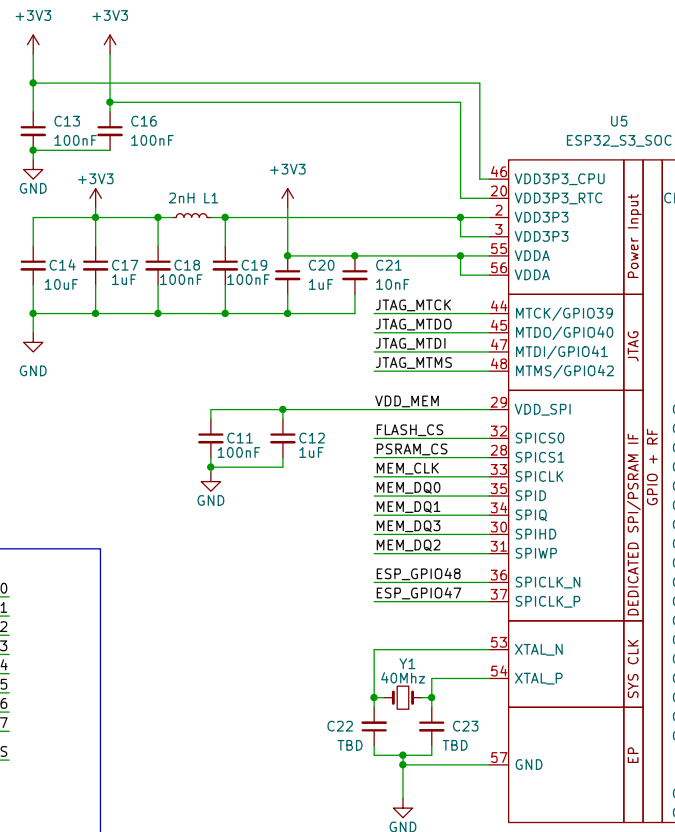
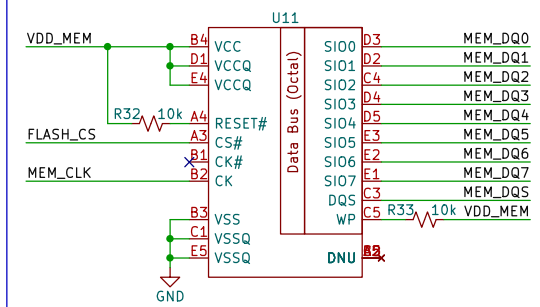


OCTAL PSRAM



OCTAL Flash



| | |
|-------------|--------------|
| SYS_I2C_SDA | ACC_SDA |
| SYS_I2C_SCL | ACC_SCL |
| ESP_GPIO10 | ACC_INT1 |
| ESP_GPIO9 | ACC_INT2 |
| ESP_GPIO11 | LED_DAT |
| ESP_ADC1_3 | PS1 3V3 VOUT |

File: Peripherals.kicad_sch

DebugBoard

The debug board serves as a companion device that allows easy command and control of the main device. The board offers serial access, JTAG debug, and dual RS485 ports to allow the host system to monitor RS485 traffic (Uses both ports), or emulate a RS485 client device (One or Both ports)

File: DebugBoard.kicad_sch

Open Source Hardware
Design by: Daniel J Manla
In Collaboration with MIF
DanWave Design LLC.

Sheet: /
File: HuffAndPuff.kicad_sch

Title: HuffAndPuff

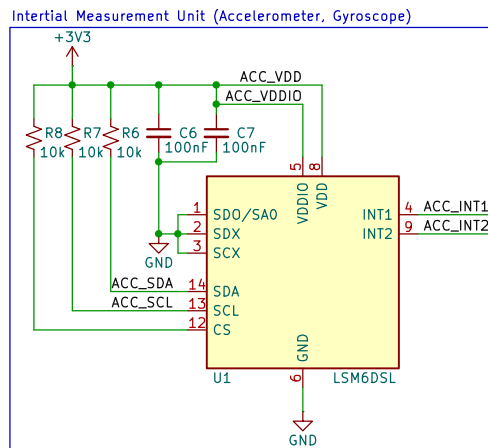
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|---------------------------|------------------|
| Title: HuffAndPuff | |
| Size: A4 | Date: 2024-09-17 |

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| Size: A4 | Date: |
|----------|-------|

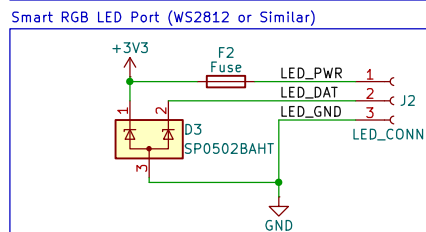
Rev: A1

Id: 1/5

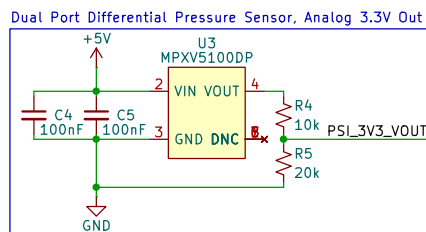
ACC_SDA↔ ACC_SDA
 ACC_SCL↔ ACC_SCL
 ACC_INT1↔ ACC_INT1
 ACC_INT2↔ ACC_INT2



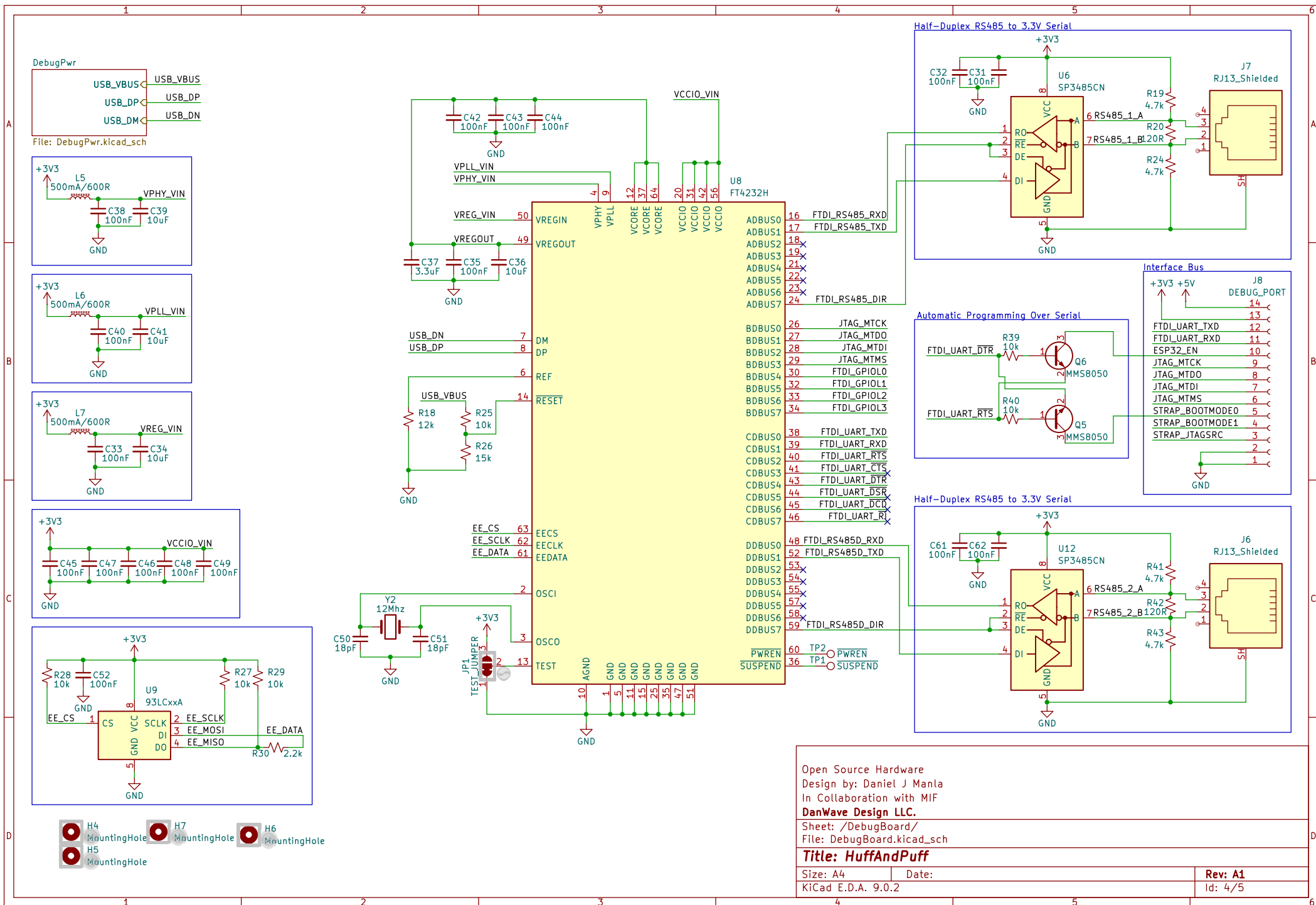
LED_DAT↔ LED_DAT

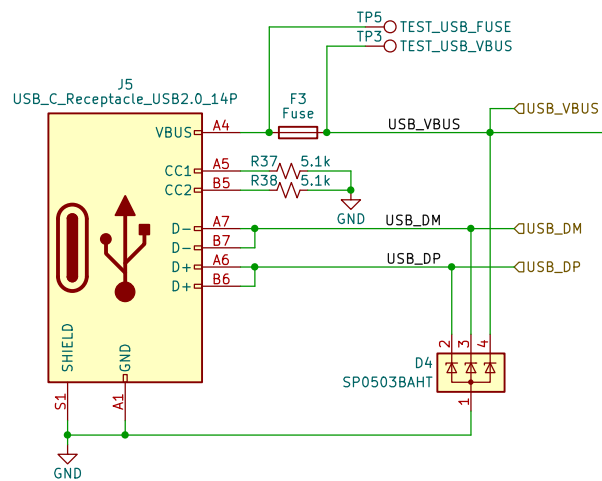


PSI_3V3_VOUT↔ PSI_3V3_VOUT

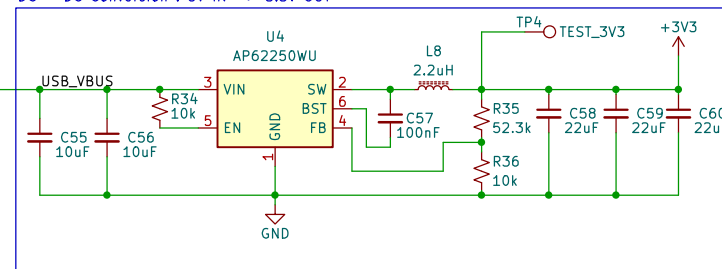


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 Design by: Daniel J Manla
 In Collaboration with MIF
DanWave Design LLC.
 Sheet: /Peripherals/
 File: Peripherals.kicad_sch
Title: HuffAndPuff
 Size: A4 Date:
 KiCad E.D.A. 9.0.2 Rev: A1
 Id: 3/5





DC - DC Conversion : 5V IN -> 3.3V OUT



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Sheet: /DebugBoard/DebugPwr/
File: DebugPwr.kicad_sch

Title: HuffAndPuff

Size: A4

Date:

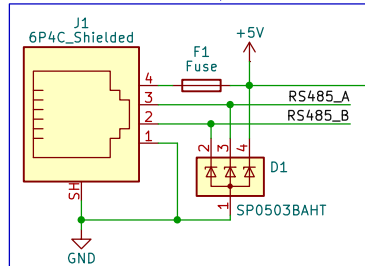
KiCad E.D.A. 9.0.2

Rev: A1

Id: 5/5

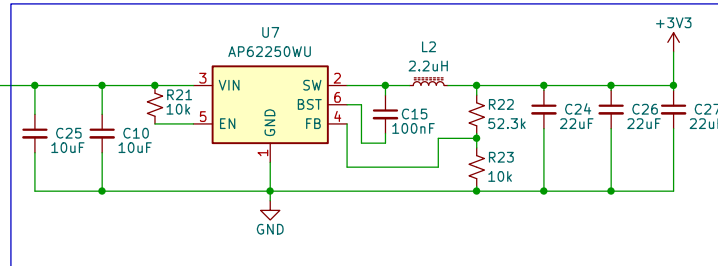
- H1 MountingHole
- H2 MountingHole
- H3 MountingHole

RS485 over RJ11 – Half Duplex

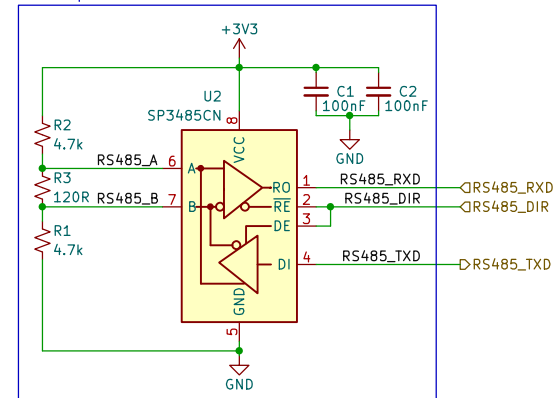


Utilize pins 2 and 3 as they are a twisted pair in typical phone cabling. Pins 4 and 1 are also twisted which may have negligible benefits to power delivery.

DC – DC Conversion : 5V IN -> 3.3V OUT



Half-Duplex RS485 to 3.3V Serial



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Sheet: /MAIN_PORT/
File: MAIN_PORT.kicad_sch

Title: HuffAndPuff

Size: A4 Date: 2024-09-05
KiCad E.D.A. 9.0.2

Rev: A1
Id: #/5