

File: power.kicad_sch



File: connector.kicad_sch



File: ethernet.kicad_sch



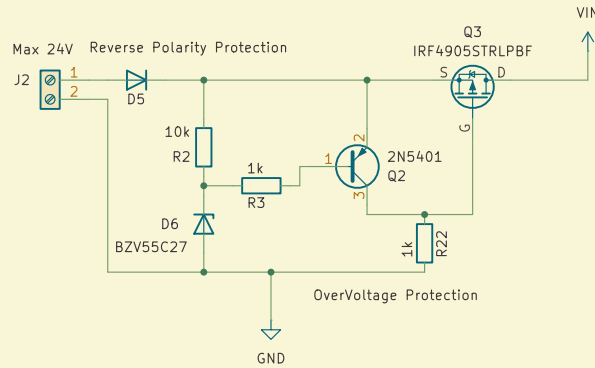
File: mbus.kicad_sch



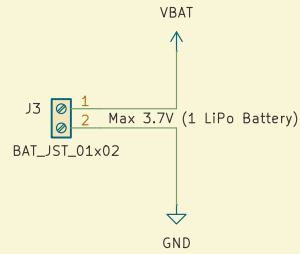
File: sdcard.kicad_sch

Approved By: Jones Kisaka Deigned By: Rodney Osodo Abstract Machines		
Sheet: / File: s0-base-board.kicad_sch		
Title: S0 Base Board		
Size: A4	Date: 2025-02-26	Rev: v0.1.0
KiCad E.D.A. 8.0.8		Id: 1/6

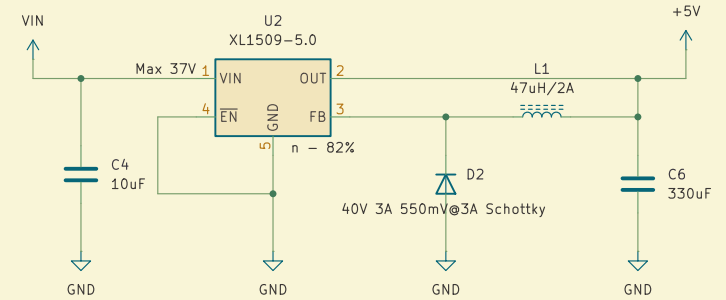
T-BLOCK



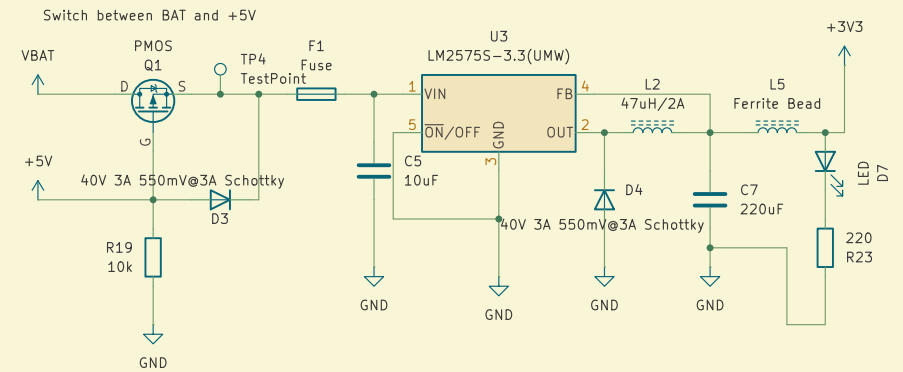
BAT



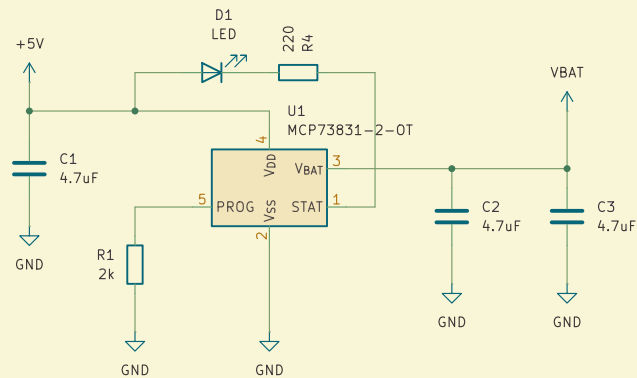
VIN - 5V CONV



5V - 3.3V CONV



BATTERY CHARGER



Approved By: Jones Kisaka
 Designed By: Rodney Osodo
Abstract Machines

Sheet: /power/
 File: power.kicad_sch

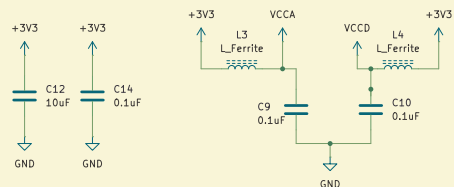
Title: S0 Base Board

Size: A4 Date: 2025-02-26
 KiCad E.D.A. 8.0.8

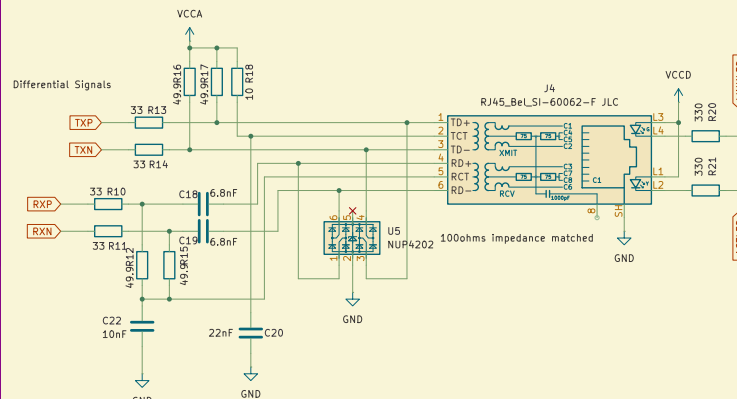
Rev: v0.1.0
 Id: 2/6

DECOUPLING CAPS

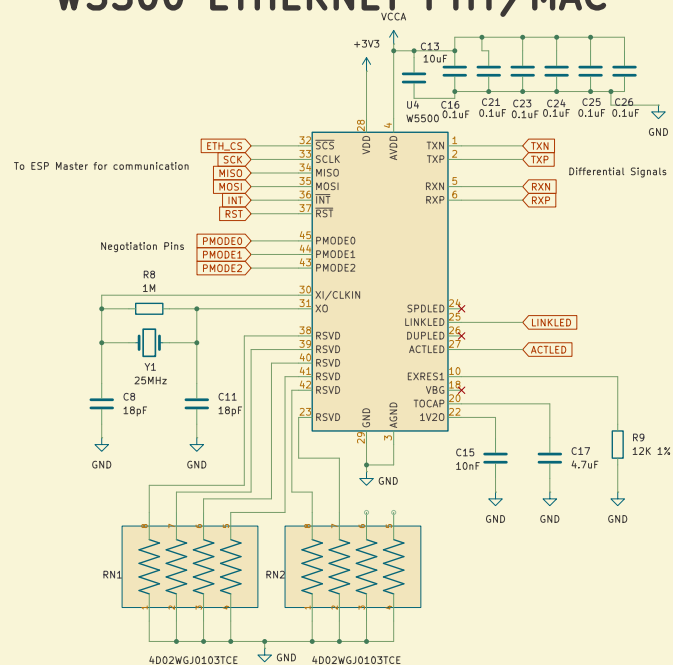
Decoupling Caps help ensure stable operation
Filtering noise
Maintain a steady power supply.



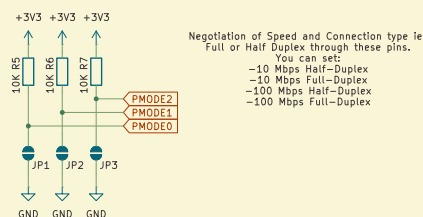
JACK & MAGNETICS



W5500 ETHERNET PHY/MAC



AUTO-NEGOTIATING MODES



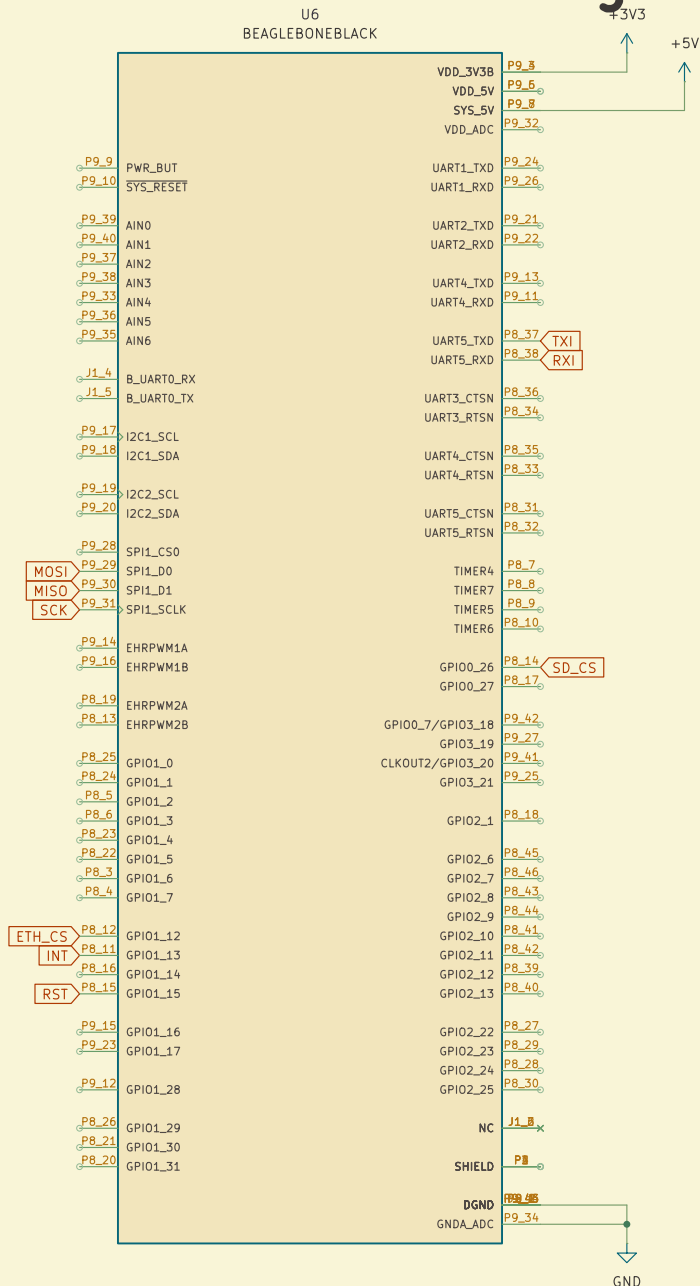
Approved By: Jones Kisaka
Designed By: Rodney Osodo
Abstract Machines
Sheet: /Ethernet/
File: ethernet.kicad_sch

Title: S0 Base Board

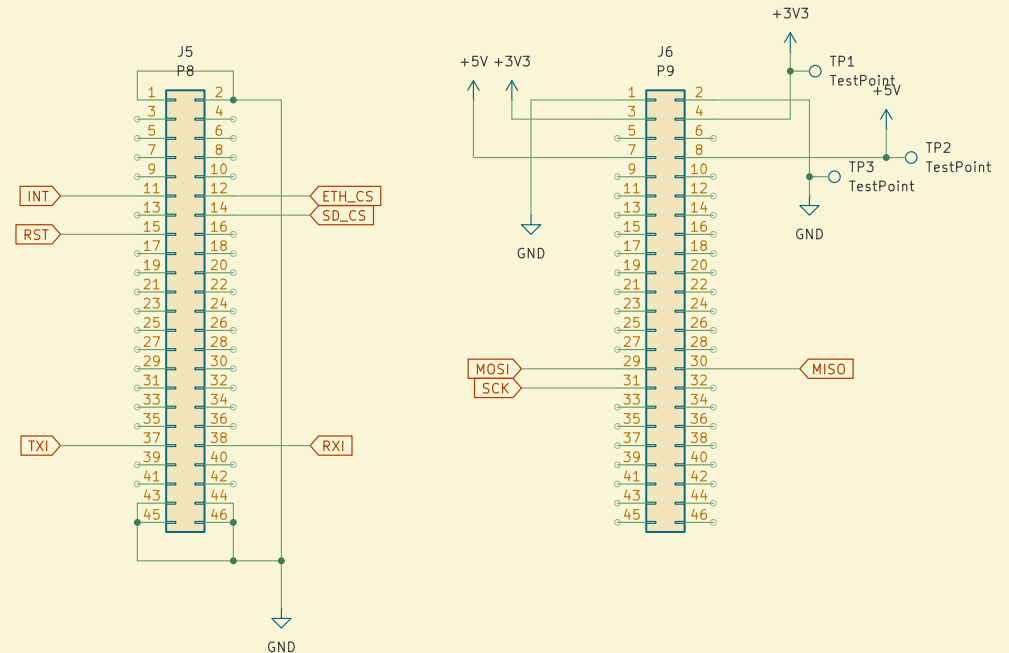
Size: A3 | Date: 2025-02-26
KiCad E.D.A. 8.0.8

Rev: v0.1.0
Id: 3/6

BeagleBone Cape Board



Female Pin Headers connected to the BeagleBone Cape



Approved By: Jones Kisaka

Deigned By: Rodney Osodo

Abstract Machines

Sheet: /Connectors/

File: connector.kicad_sch

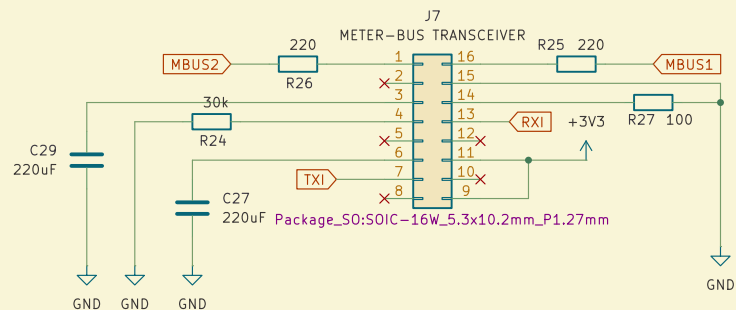
Title: S0 Base Board

Size: A4	Date: 2025-02-26
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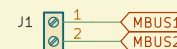
KiCad E.D.A. 8.0.8

Rev: v0.1.0

Id: 4/6



- 1 - BUSL2 - Meter-Bus
- 2 - VB - Differential bus voltage after rectifier
- 3 - STC - Support capacitor
- 4 - RIDD - Current adjustment input
- 5 - PF - Power fail output
- 6 - SC - Sampling capacitor
- 7 - TXI - Data output inverted
- 8 - TX - Data output
- 9 - BAT - Logic level adjust
- 10 - VS - Switch for bus or battery supply output
- 11 - VDD - Voltage regulator output
- 12 - RX - Data input
- 13 - RXI - Data input inverted
- 14 - RIS - Adjust input for modulation current
- 15 - GND - Ground
- 16 - BUSL1 - Meter-Bus



Approved By: Jones Kisaka
 Deigned By: Rodney Osodo

Abstract Machines

Sheet: /wiredmbus/
 File: mbus.kicad_sch

Title: S0 Base Board

Size: A4 Date: 2025-02-26

KiCad E.D.A. 8.0.8

Rev: v0.1.0

Id: 5/6

