

power

File: power.kicad\_sch

Connectors

File: connector.kicad\_sch

Ethernet

File: ethernet.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

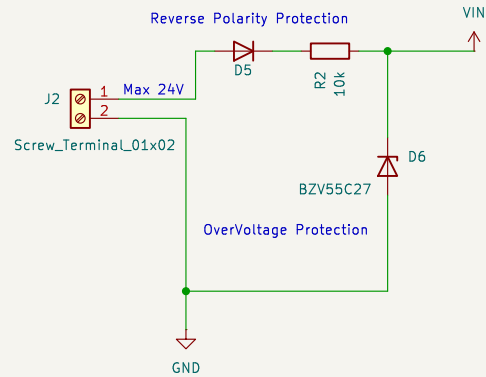
Date: 2025-02-26

**Rev: v0.1.0**

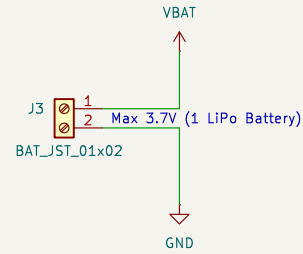
KiCad E.D.A. 8.0.8

Id: 1/4

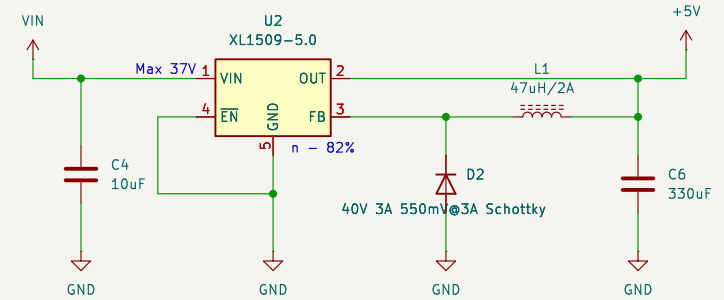
## T-BLOCK



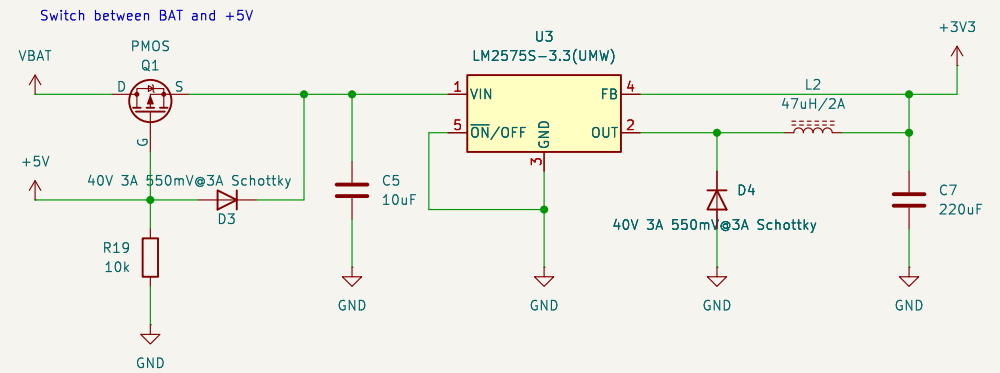
## BAT



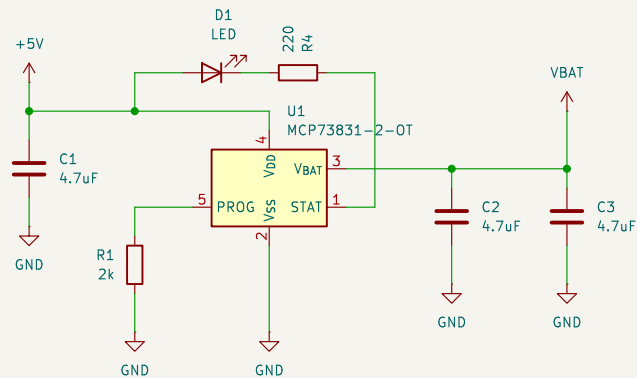
## VIN – 5V CONV



## 5V – 3.3V CONV



## BATTERY CHARGER



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 Designed By: Rodney Osodo  
**Abstract Machines**

Sheet: /power/  
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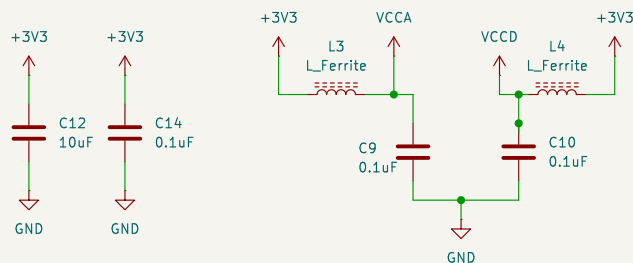
**Title: S0 Base Board**

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

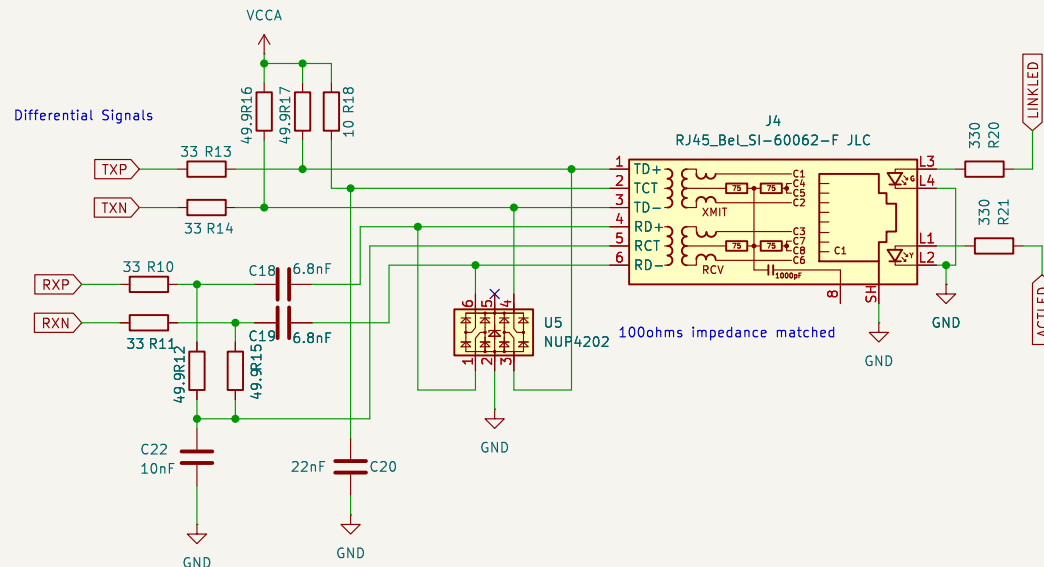
**Rev: v0.1.0**  
 Id: 2/4

# DECOUPLING CAPS

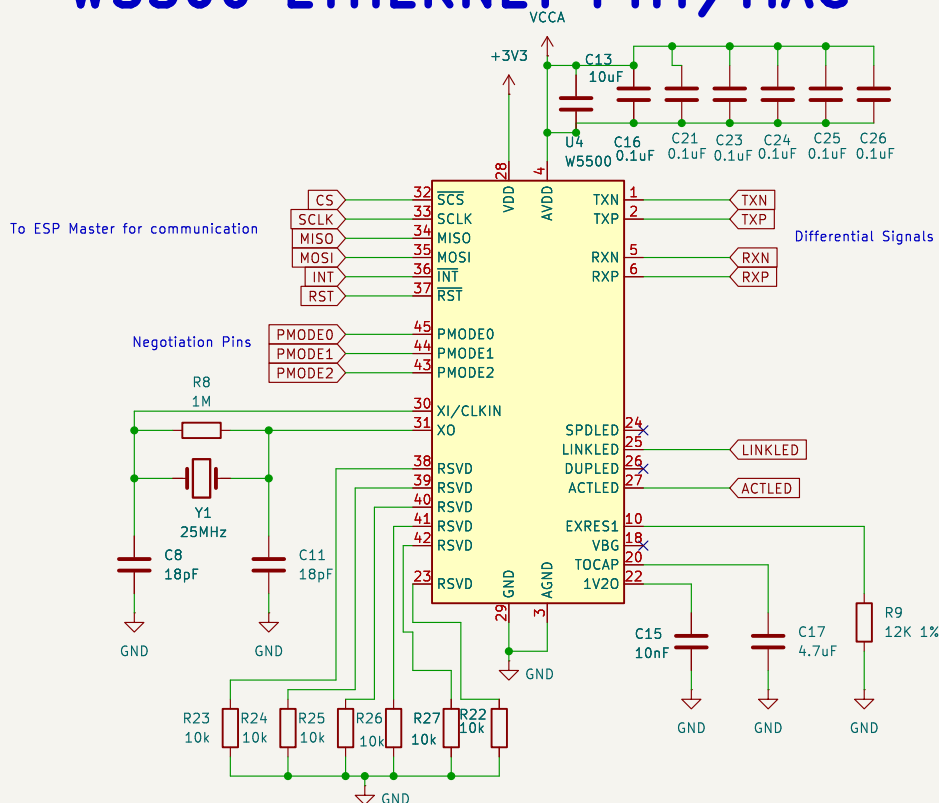
Decoupling Caps help ensure stable operation  
Filtering noise  
Maintain a steady power supply.



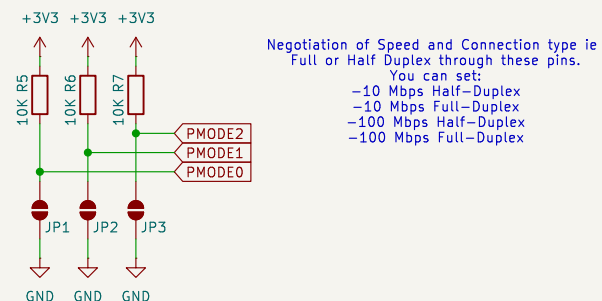
# JACK & MAGNETICS



# W5500 ETHERNET PHY/MAC



# AUTO-NEGOTIATING MODES



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Designed By: Rodney Osodo  
**Abstract Machines**

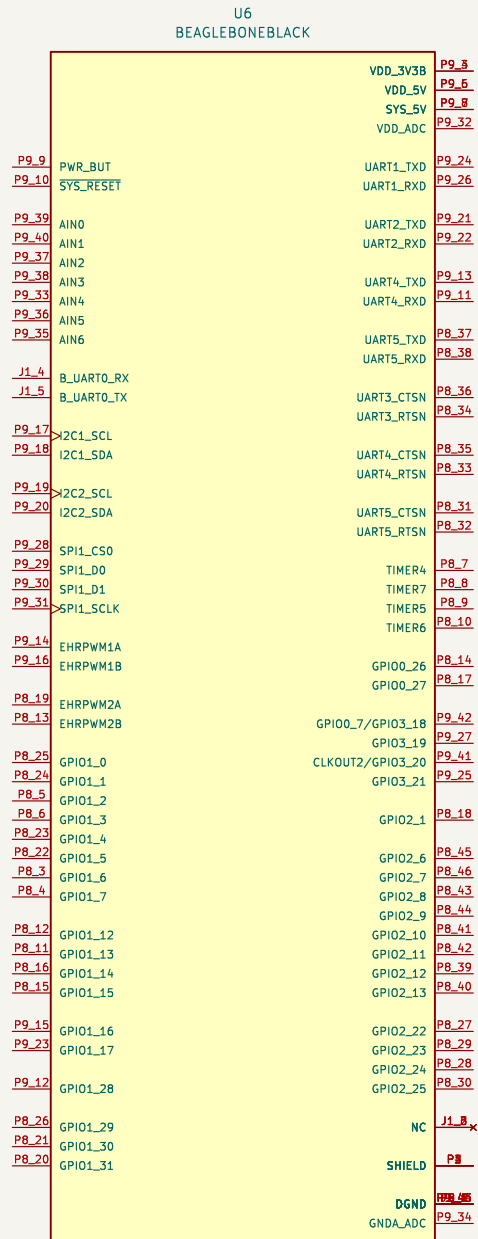
Sheet: /Ethernet/  
File: ethernet.kicad\_sch

**Title: S0 Base Board**

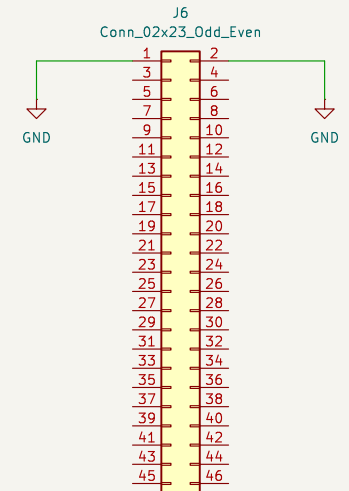
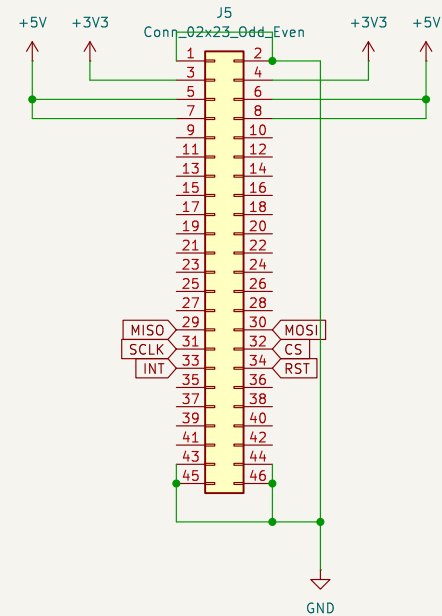
Size: A4 Date: 2025-02-26  
KiCad E.D.A. 8.0.8

Rev: v0.1.0  
Id: 3/4

# BeagleBone Cape Board



Female Pin Headers connected to the BeagleBone Cape



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Designed By: Rodney Osodo  
**Abstract Machines**

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**Title: S0 Base Board**

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

**Rev: v0.1.0**  
Id: 4/4