

# Raven-I Sentinel

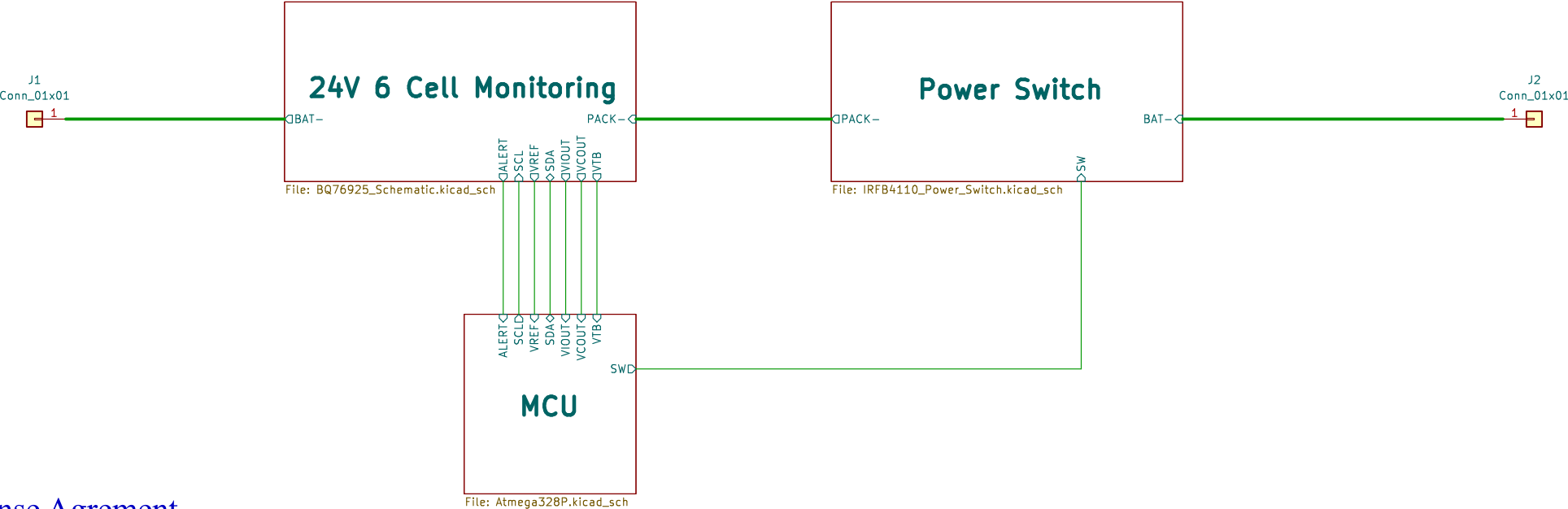
## Version 1.0

### Version Goal

- Kick start development of a value-oriented, robust BMS with external communication capabilities.

### Legend

- General Comments
- Justification
- Warnings



### License Agreement

- This PCB design is licensed under CC BY-SA 4.0
- This PCB design is provided "as-is," without warranty of any kind, either express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose, or non-infringement.
- The author(s) shall not be held liable for any damages, injuries, or other consequences arising from the use of this design.

T<sub>ç</sub>NBTEκ=

M S Ali

Sheet: /

File: BQ76925\_ATMEGA328P\_6S\_20A\_BMS.kicad\_sch

**Title: Raven-I Sentinel**

Size: A4

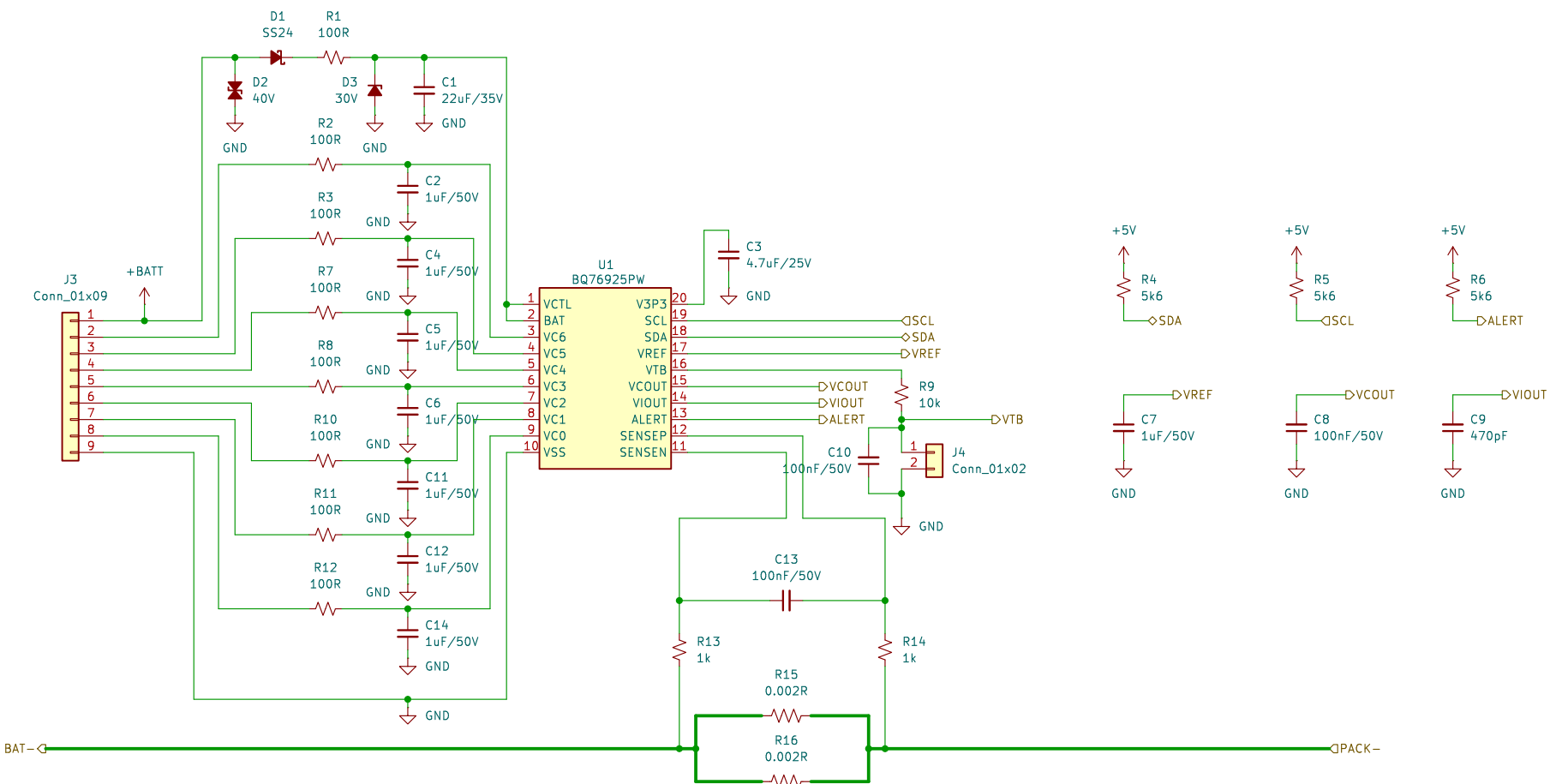
Date: 2024-11-23

Rev: 1.0

KiCad E.D.A. 8.0.1

Id: 1/4

BQ76925 Schematic 24V 6 Cell Monitoring



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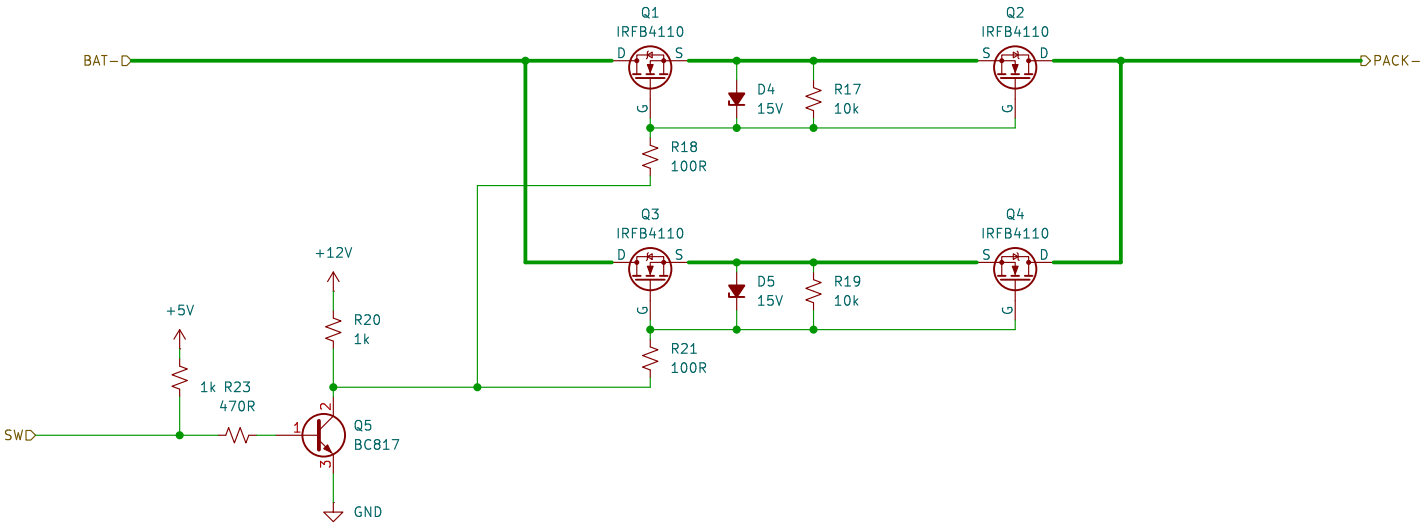
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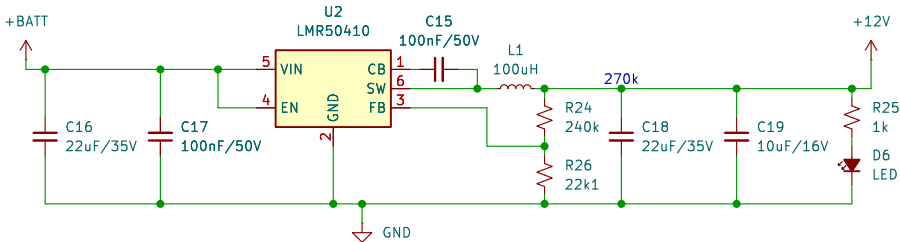
Size: A4 Date: 2024-11-23  
KiCad E.D.A. 8.0.1

Rev:  
Id: 2/4

20A Power Switch



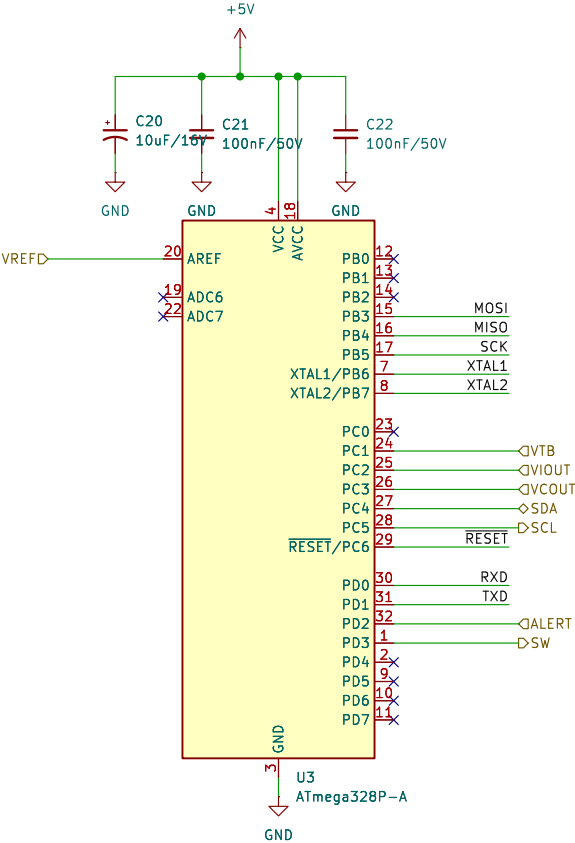
VBAT to 12V



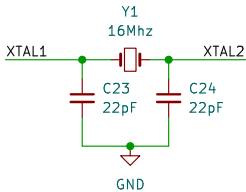
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M S Ali	
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Title: Raven-I Sentinel	
Size: A4	Date: 2024-11-23
KiCad E.D.A. 8.0.1	Rev: Id: 3/4

MCU



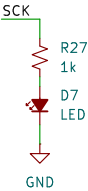
MCU - Crystal



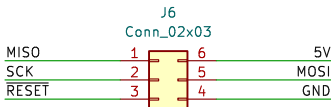
MCU - UART



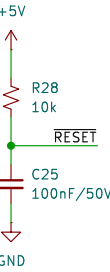
MCU - TEST LED



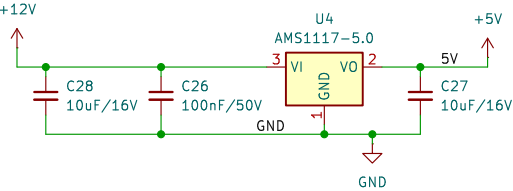
MCU - Programmer



MCU - RESET



12V to 5V LDO



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M S Ali

Sheet: /MCU/  
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Title: Raven-I Sentinel

Size: A4  
KiCad E.D.A. 8.0.1

Date: 2024-11-23

Rev:  
Id: 4/4