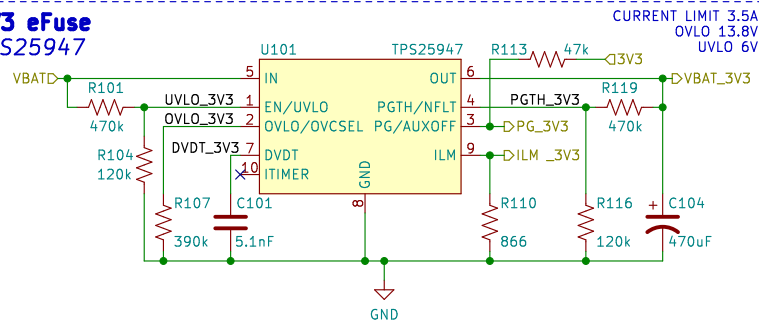
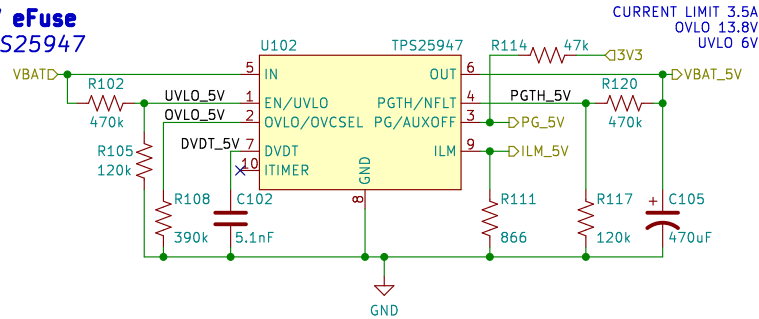


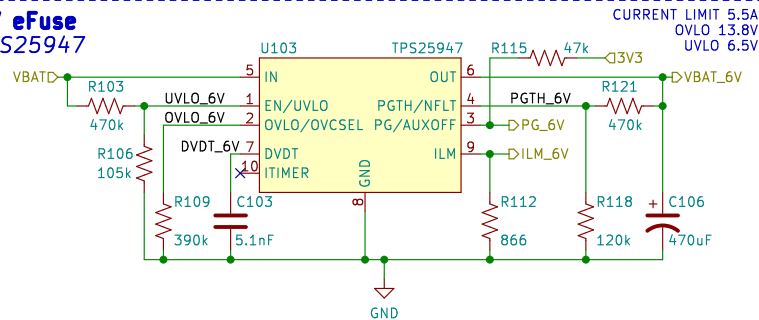
3V3 eFuse TPS25947



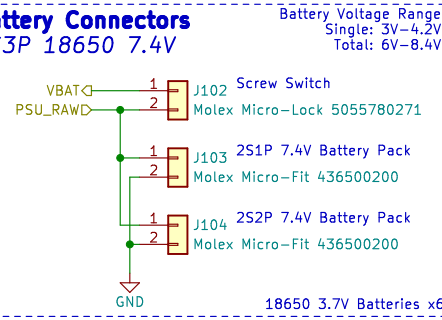
5V eFuse TPS25947



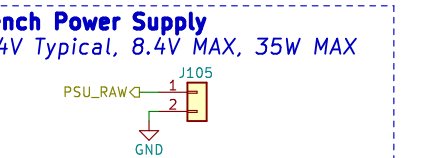
6V eFuse TPS25947



Battery Connectors 253P 18650 7.4V

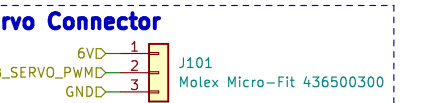


Bench Power Supply 7.4V Typical, 8.4V MAX, 35W MAX

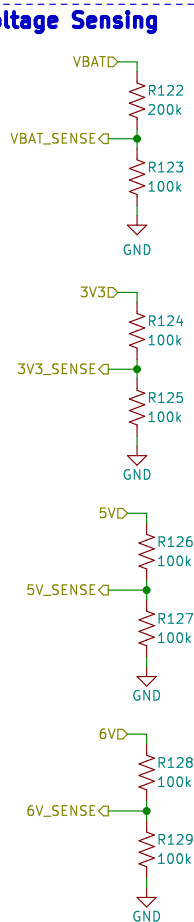


!!!WARNING: DISCONNECT BATTERIES BEFORE USE!!!

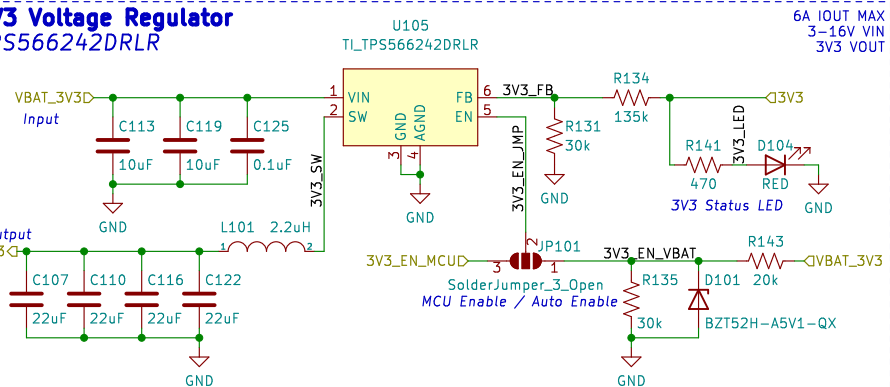
Servo Connector



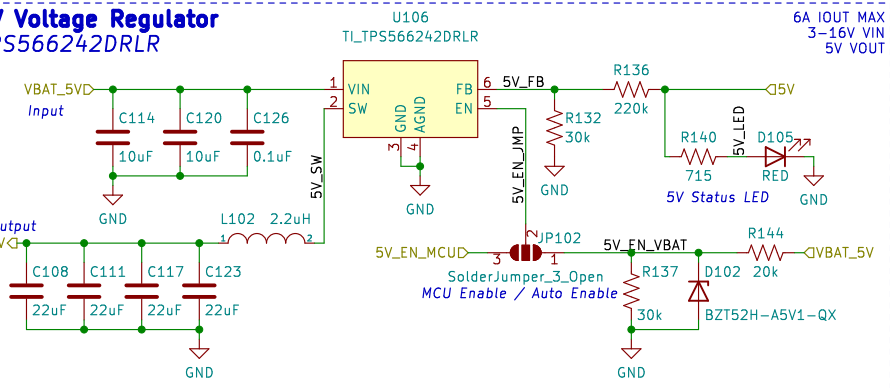
Voltage Sensing



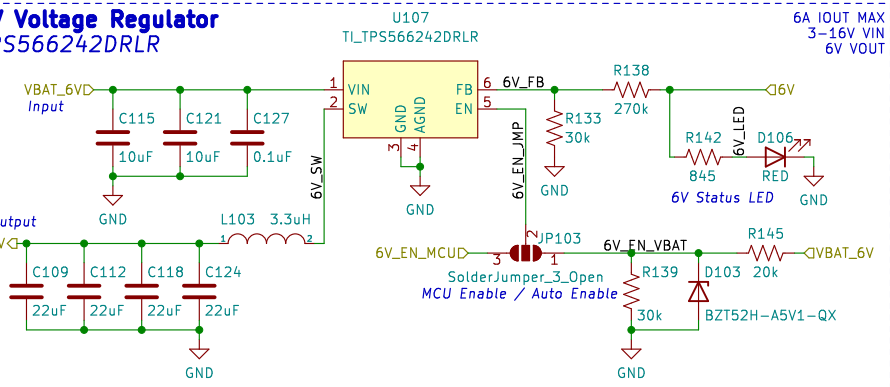
3V3 Voltage Regulator TPS566242DRLR



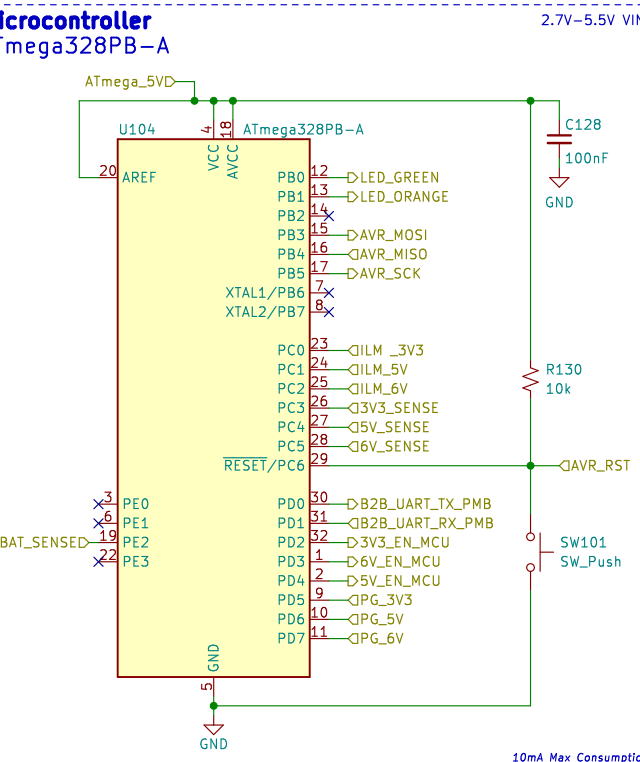
5V Voltage Regulator TPS566242DRLR



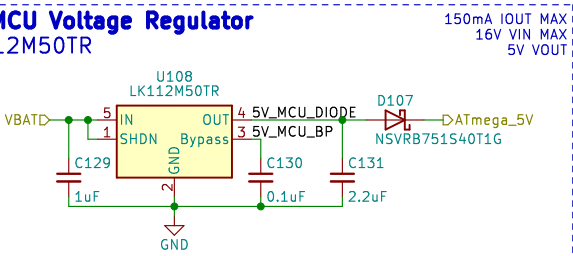
6V Voltage Regulator TPS566242DRLR



Microcontroller ATmega328PB-A

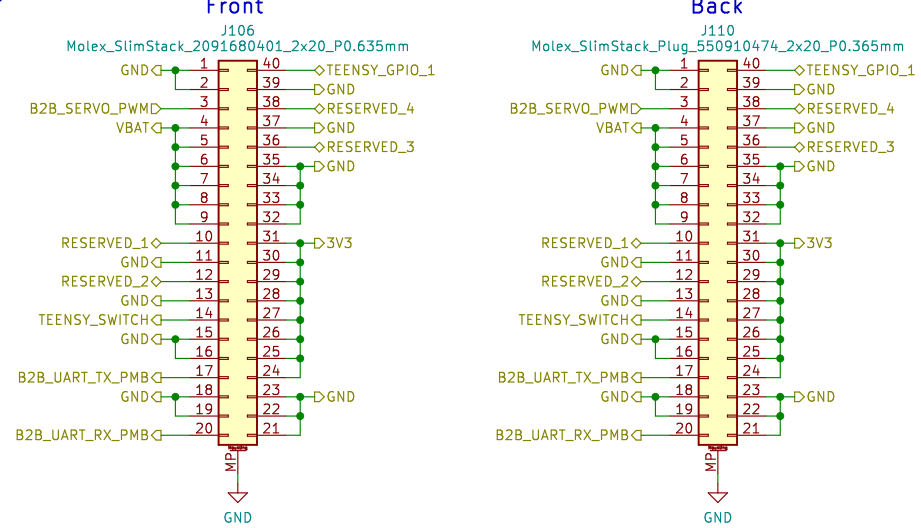


5V MCU Voltage Regulator LK112M50TR



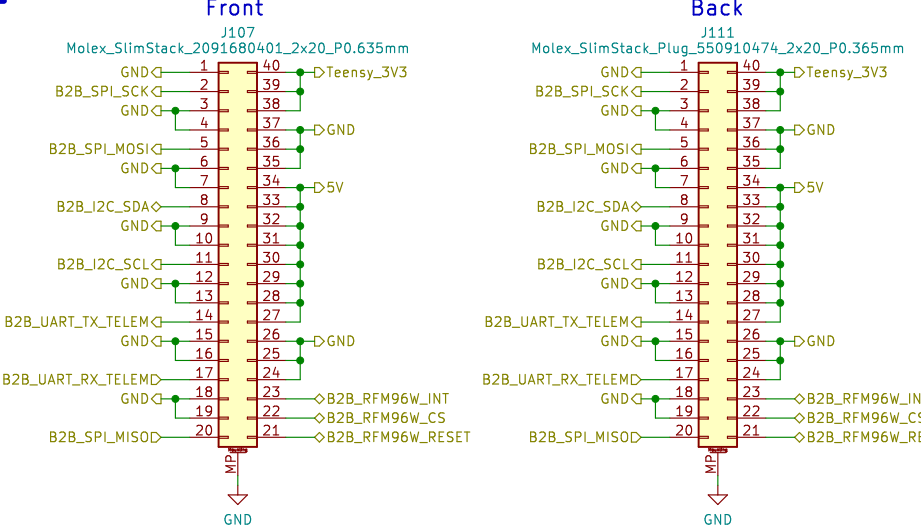
+Z

Board-To-Board Connectors

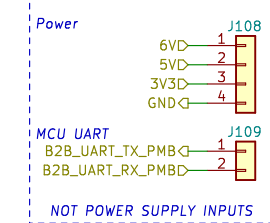


-Z

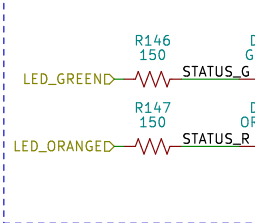
Board-To-Board Connectors



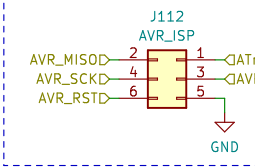
Debug Pins



Status LEDs



Programming Pins



Contributors: Eisha Peyyeti, Alex Roberts, Quinn Athas, Danny Guller, Rishi Patel, Peter Giannetos, David Zhang

Illinois Space Society

Sheet: /
File: TARS-MK4.1-PMB.kicad_sch

Title: TARS MK4.1 Power Management Board

Size: A3
Date: 2023-05-18
KiCad E.D.A. eeschema (6.0.0)

Rev: A
Id: 1/1

!!!WARNING: Using incorrect batteries or power sources may damage electronics!!!

Grid Size: 1.27mm