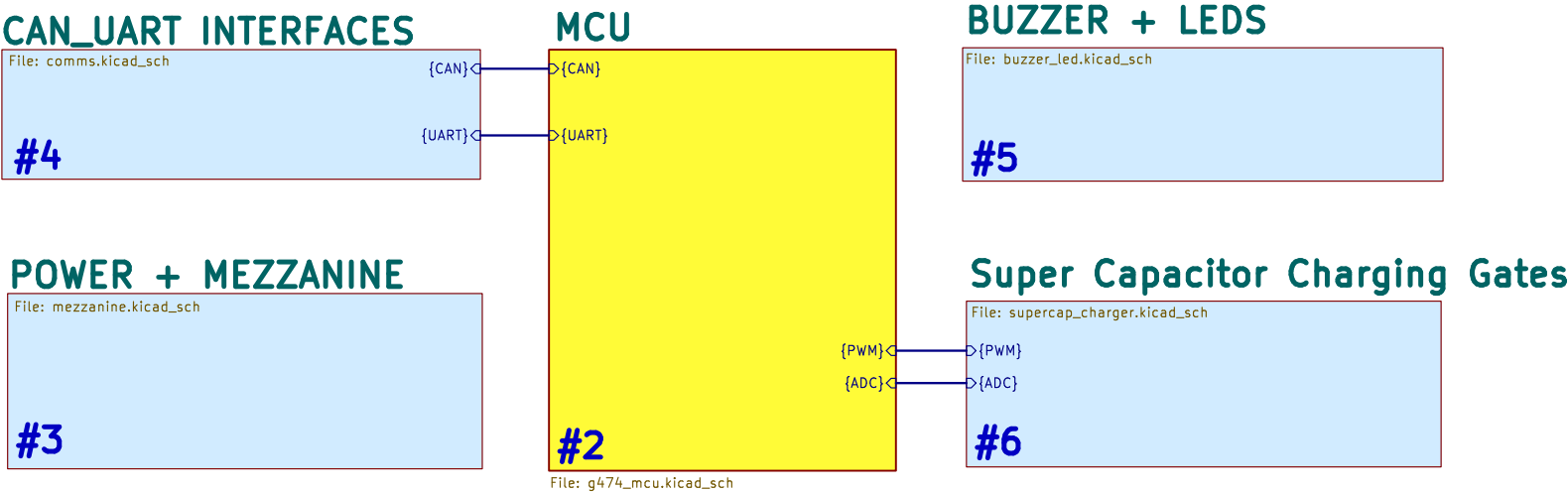


SUPER CAPACITOR MODULE OVERVIEW



Authors : Wx, Yassine Bakkali

NUS Calibur Robotics

Sheet: /
File: ctl_board.kicad_sch

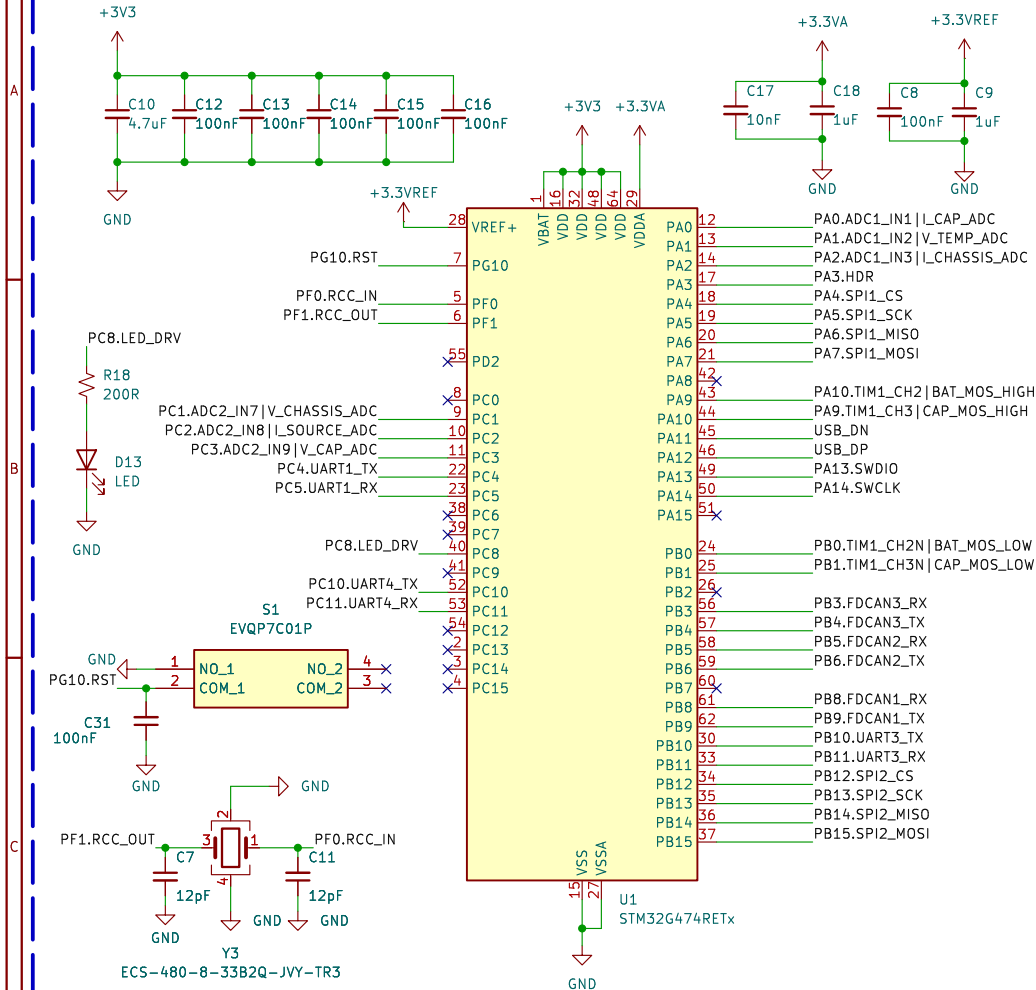
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Size: A4 Date: 2024-06-22
KiCad E.D.A. 8.0.2

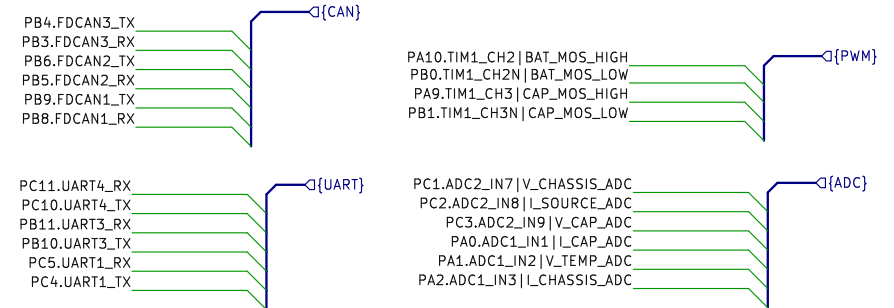
Rev: v1.0
Id: 1/6



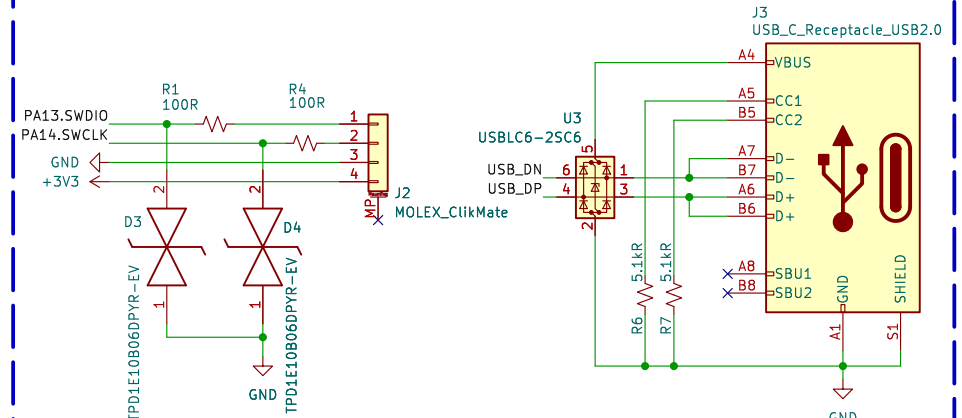
MCU (STM32G474RETx)



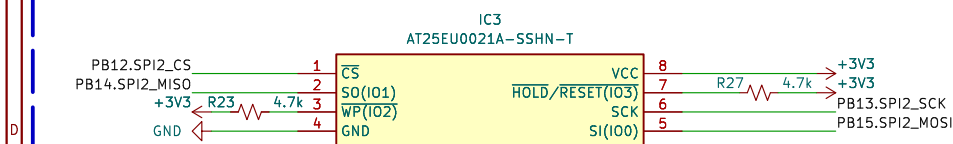
BUS CONNECTIONS



SWD/USB CONNECTORS



FLASH MEMORY



[Return to main page](#)

Authors : Wx, Yassine Bakkali

NUS Calibur Robotics

Sheet: /MCU/

File: g474_mcu.kicad_sch

Title: Super Capacitor Module (SCM)

Size: A4

Date: 2024-06-22

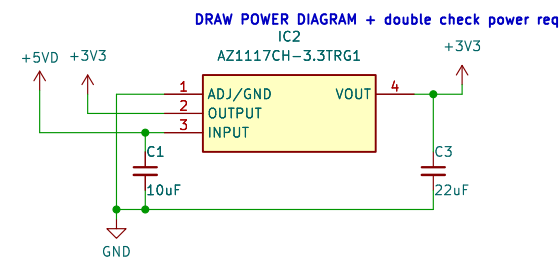
KiCad E.D.A. 8.0.2

Rev: v1.0

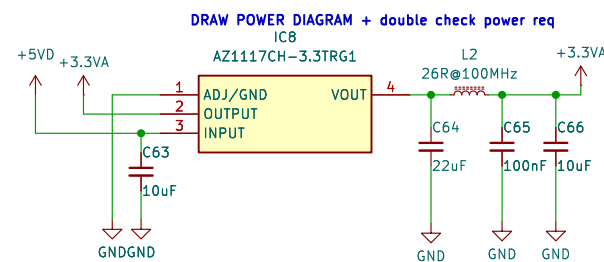
Id: 2/6



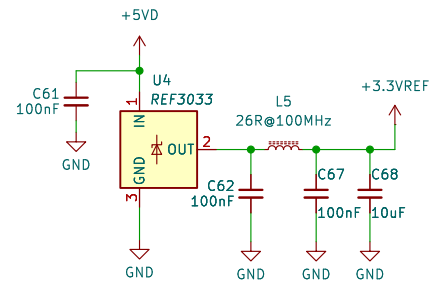
5.0V → 3.3V Buck converter



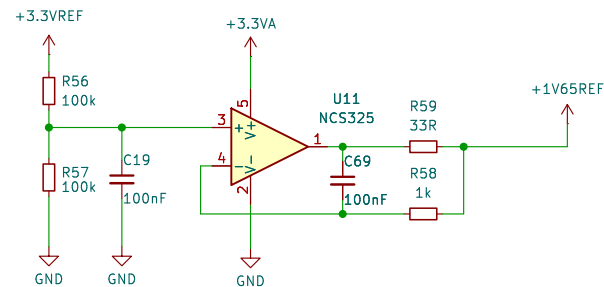
5.0V → 3.3VA Buck converter



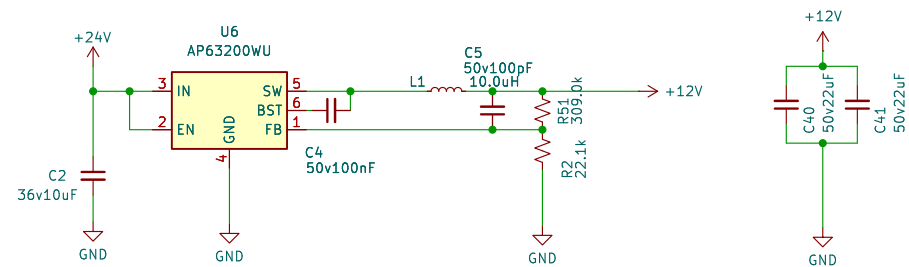
5.0V → 3.3V Reference voltage



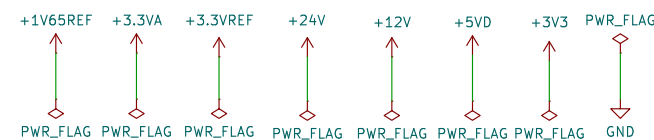
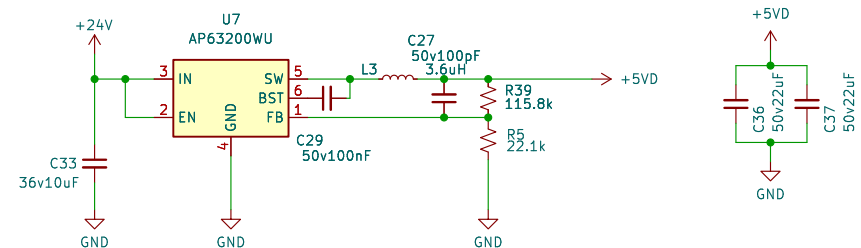
3.3V → 1.65V Reference voltage



24V → 12V,5A Buck converter



24V → 5V,5A Buck converter



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Authors : Wx, Yassine Bakkali

NUS Calibur Robotics
Sheet: /POWER + MEZZANINE/
File: mezzanine.kicad_sch

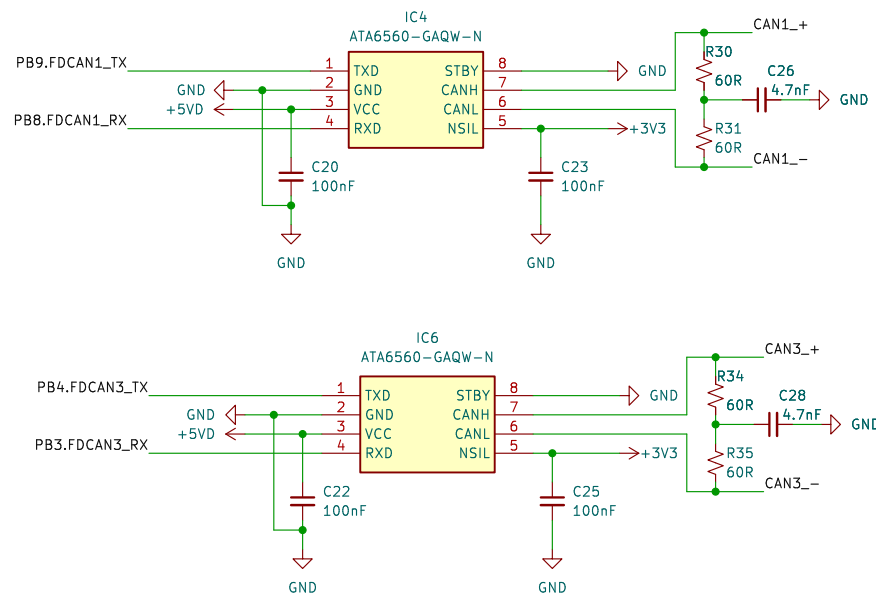
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Size: A3 Date: 2024-06-22
KiCad E.D.A. 8.0.2

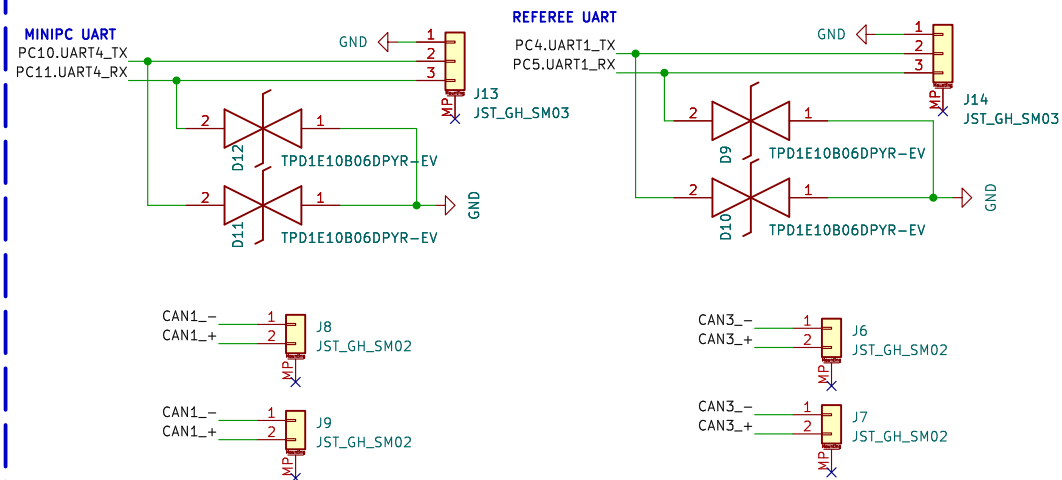
Rev: v1.0
Id: 3/6



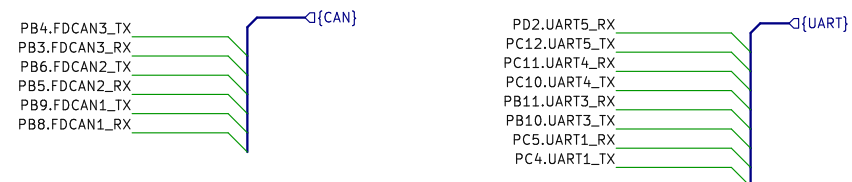
FDCAN TRANSCEIVERS



UART/CAN CONNECTORS



BUS CONNECTIONS



[Return to main page](#)

Authors : Wx, Yassine Bakkali

NUS Calibur Robotics

Sheet: /CAN_UART INTERFACES/

File: comms.kicad_sch

Title: Super Capacitor Module (SCM)

Size: A4

Date: 2024-06-22

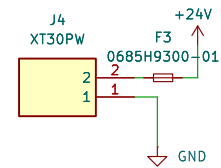
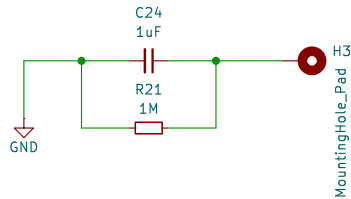
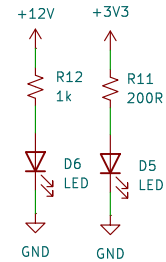
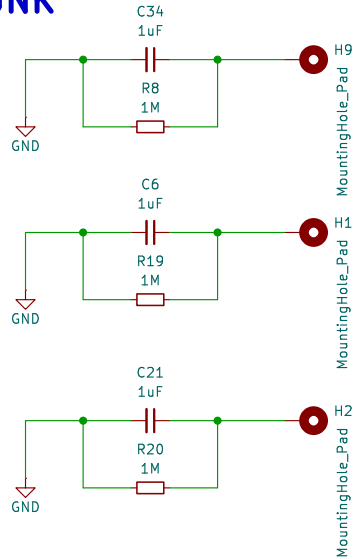
Rev: v1.0

KiCad E.D.A. 8.0.2

Id: 4/6



JUNK



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Authors : Wx, Yassine Bakkali

NUS Calibur Robotics

Sheet: /BUZZER + LEDS/

File: buzzer_led.kicad_sch

Title: Super Capacitor Module (SCM)

Size: A5

Date: 2024-06-22

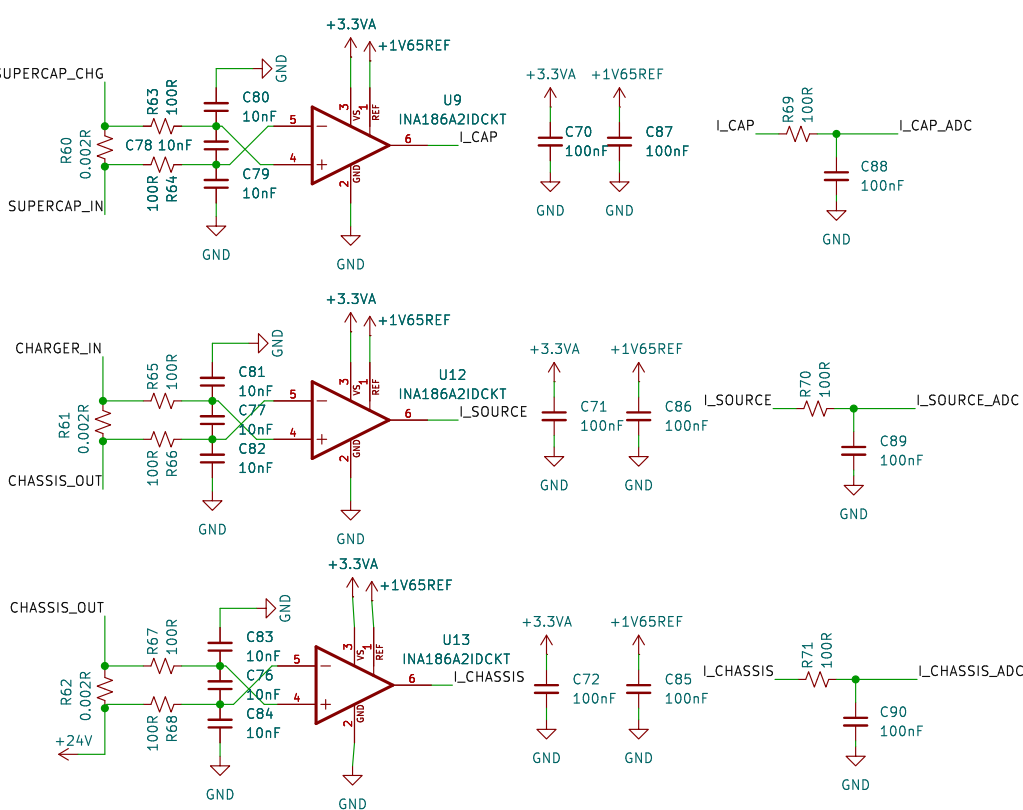
Rev: v1.0

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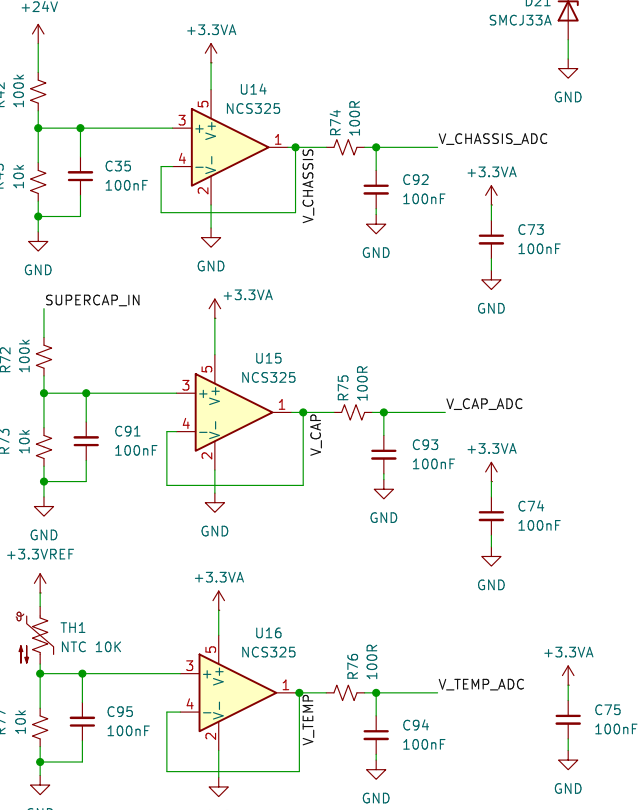
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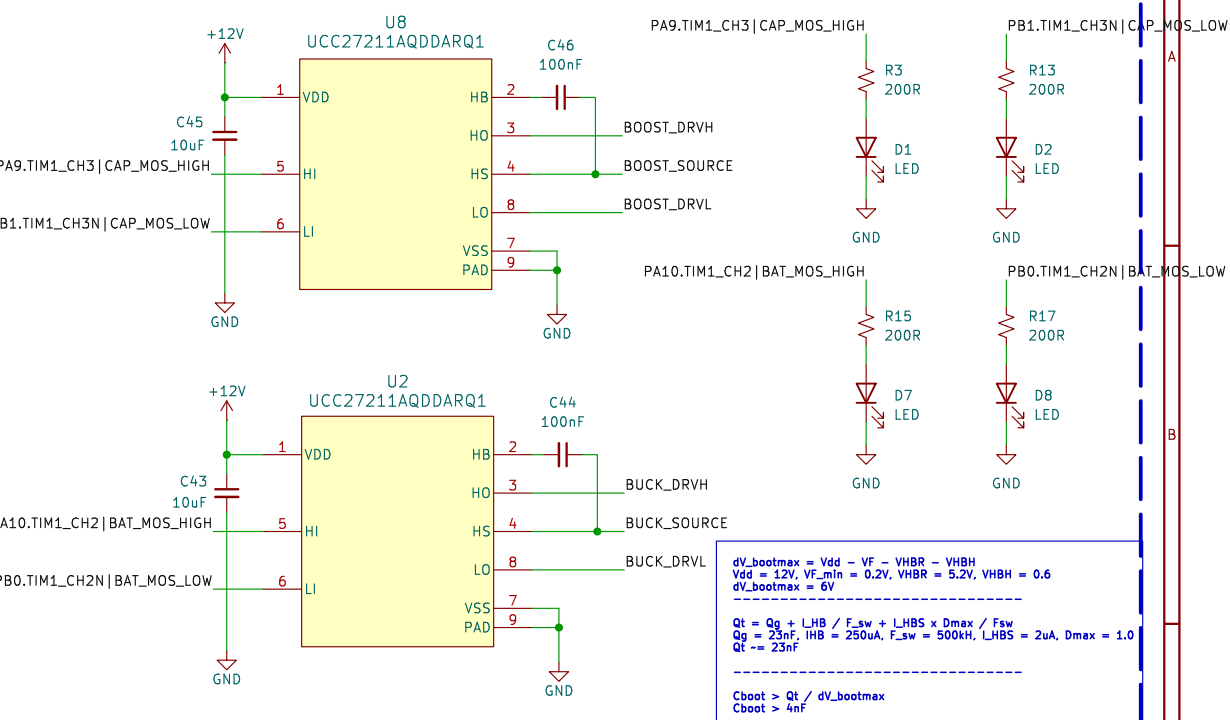
CURRENT SENSING CIRCUITS



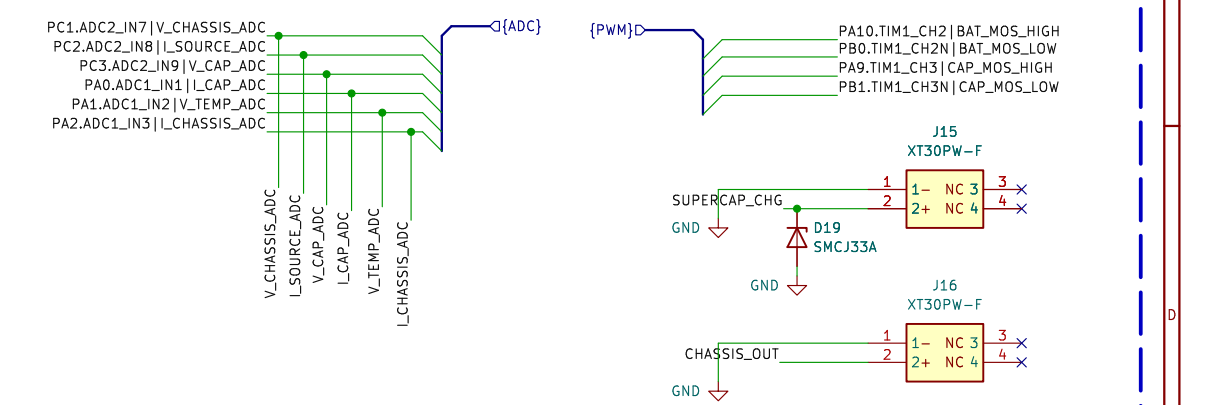
VOLTAGE FOLLOWERS



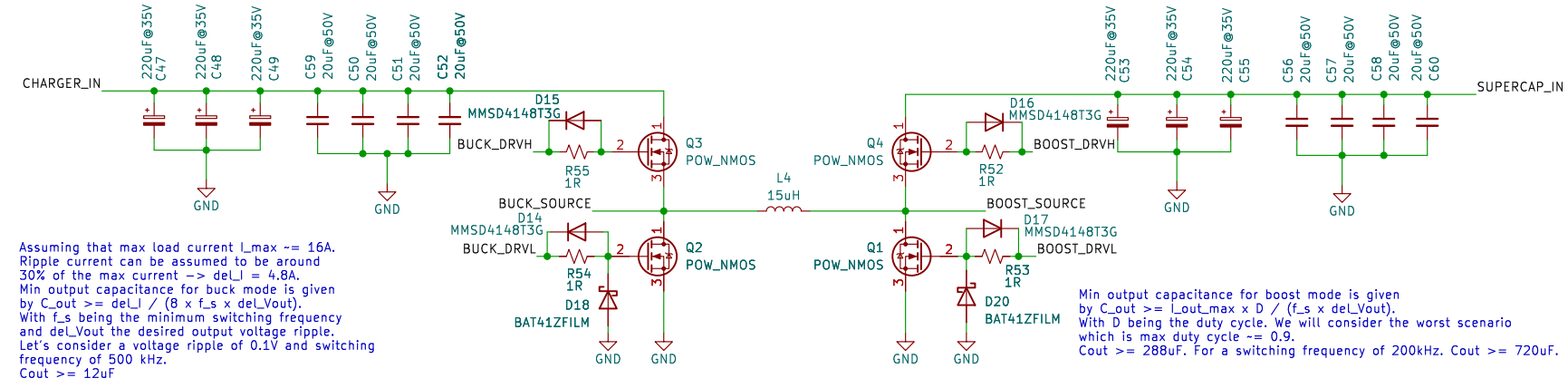
MOSFET GATE DRIVERS



BUS/POWER CONNECTORS



BUCK BOOST CHARGING CIRCUIT



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