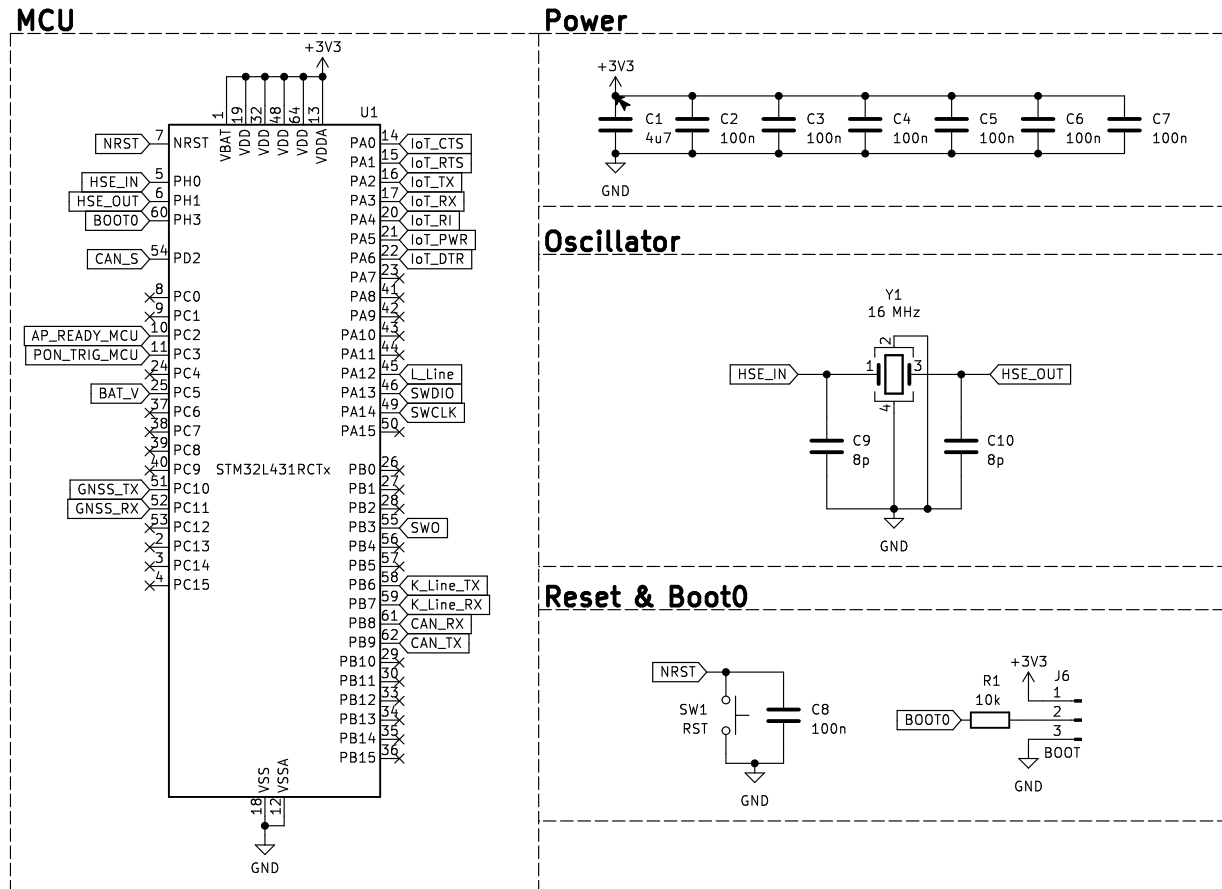


MCU – STM32L431



power_supply

File: pwr.kicad_sch

iot_module

File: iot.kicad_sch

car_comm

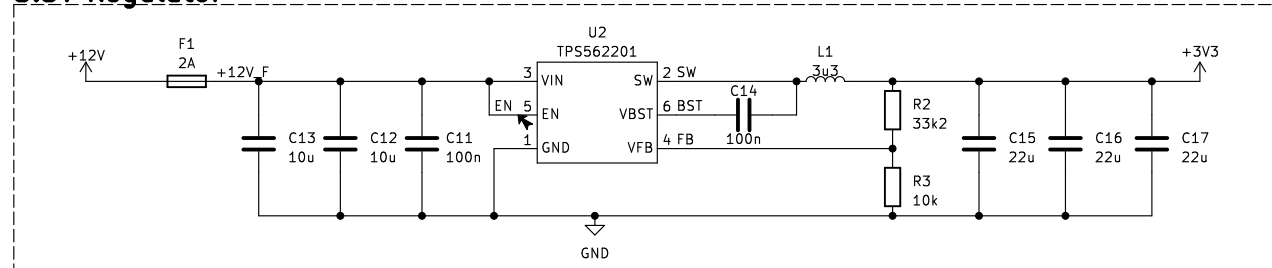
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connectors

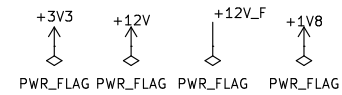
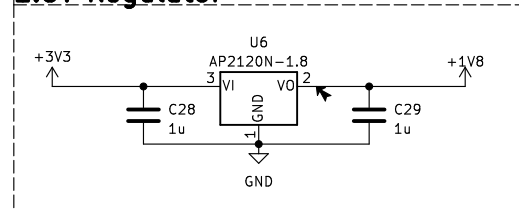
File: connect.kicad_sch

Power supplies

3.3V Regulator

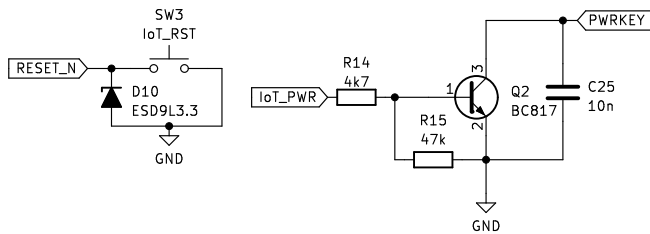


1.8V Regulator

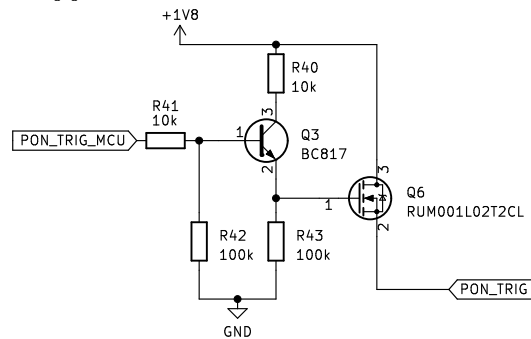


IoT Module Quectel BG77

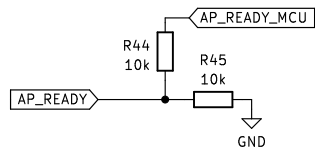
PWRKEY & RESET



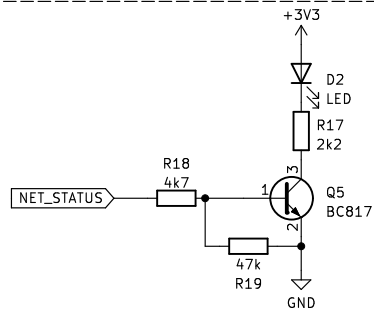
PON Trigger



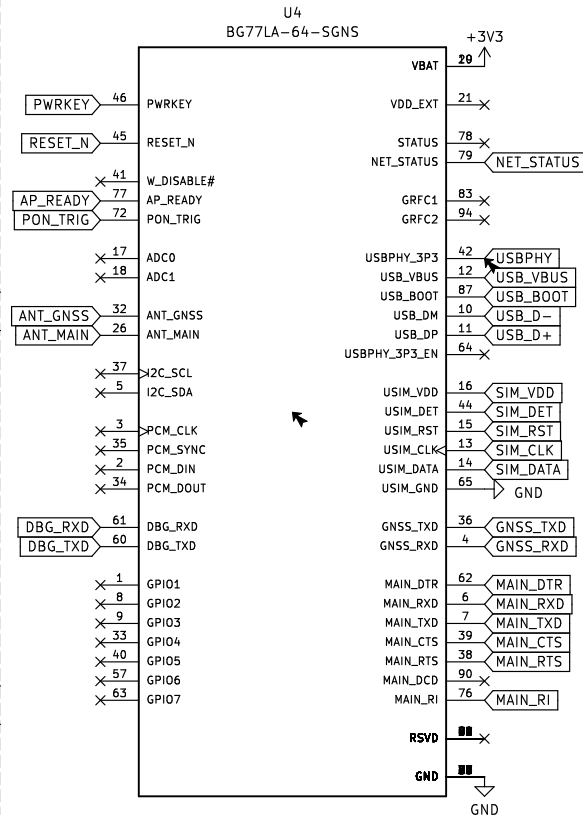
AP READY



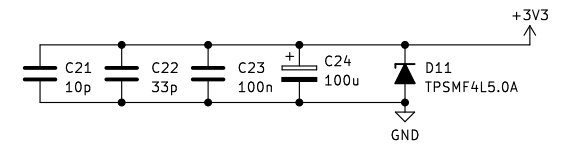
STATUS INDICATOR



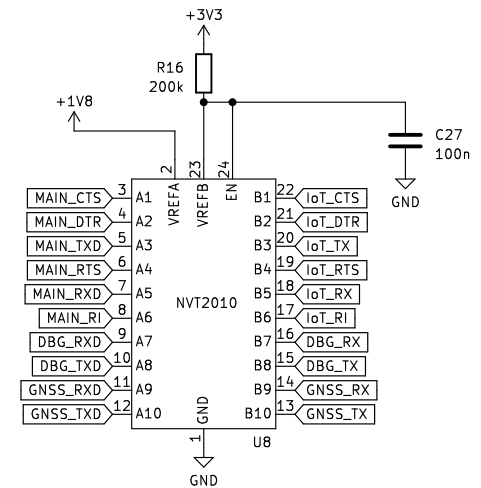
Main module



Power



UART Level Shifter

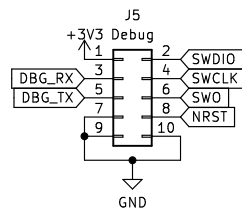


antenna sim usb

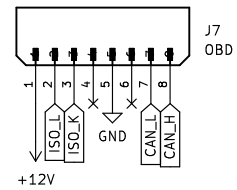
File: ant.kicad_sch File: sim.kicad_sch File: usb.kicad_sch

Connectors

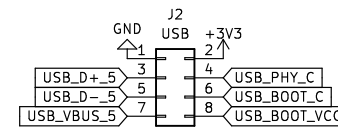
Debug



OBD

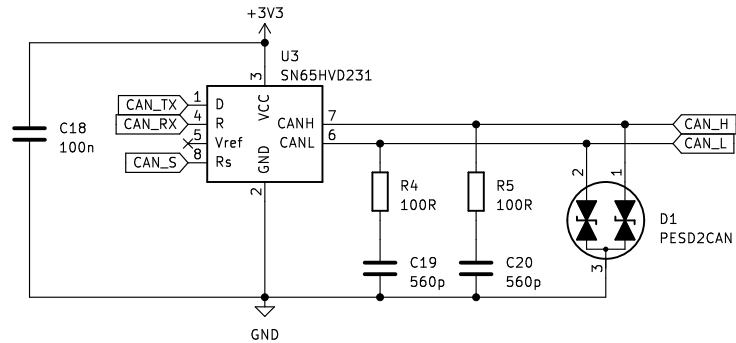


USB

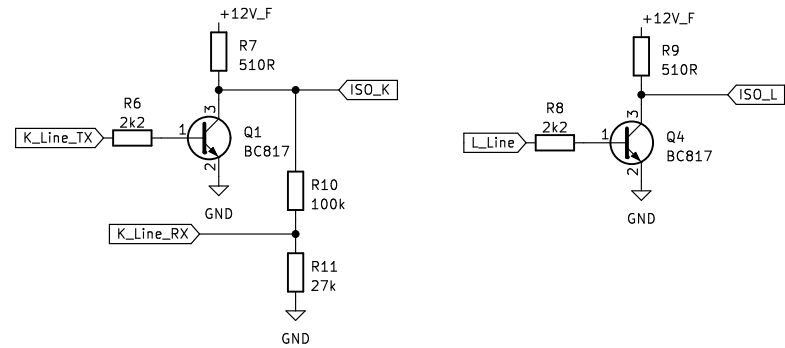


Car communication circuitry

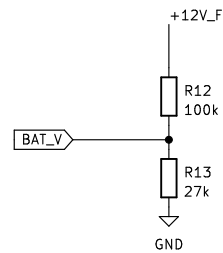
CAN BUS Transceiver



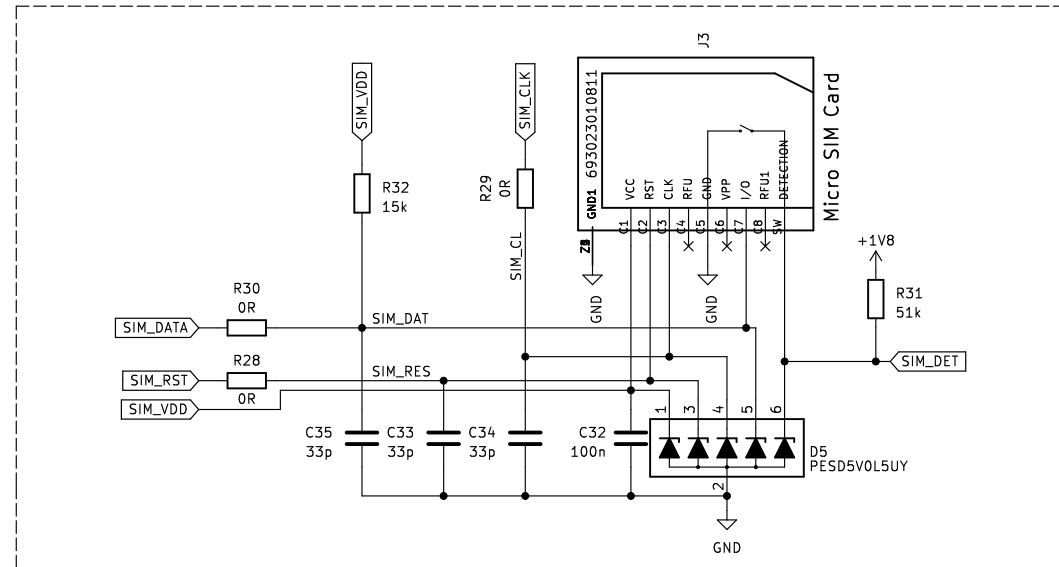
ISO 9141 / ISO 14230 Transceiver



Battery Voltage Monitoring

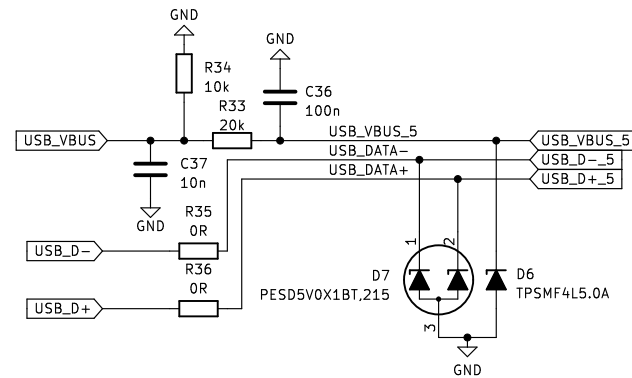


SIM Card

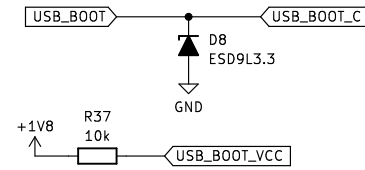


USB

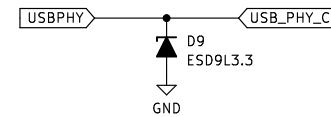
Interface



USB Boot

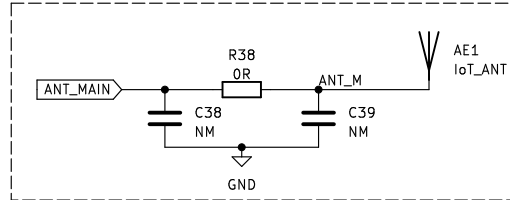


USB Phy enable circuitry



Antennas

IoT Antenna



GNSS Antenna

