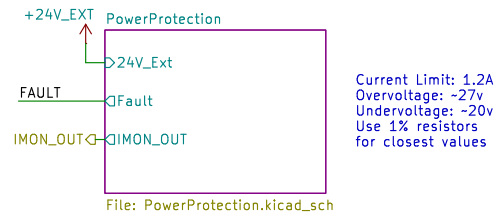
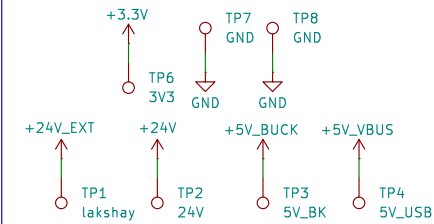


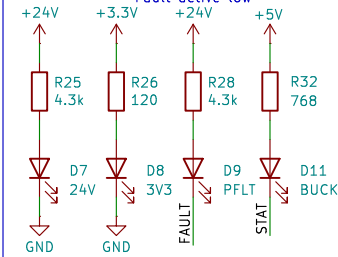
## Power Protection



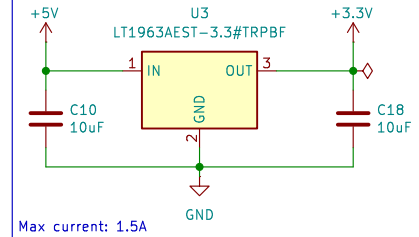
## Testpoints



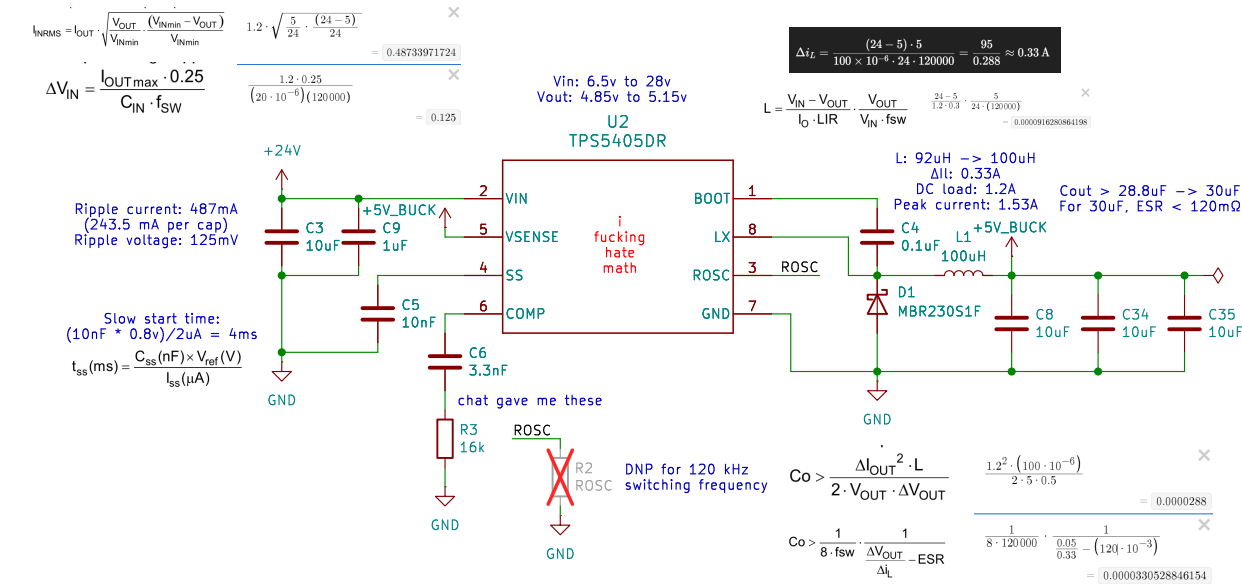
## Indicators



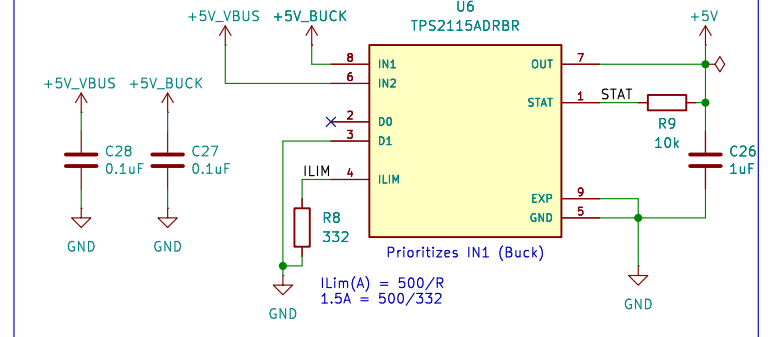
## 5->3.3v LDO



## 24->5v Buck Converter



## 5v Power Mux



Sheet: /PowerDist/  
File: PowerDist.kicad\_sch

## Title: Power Distribution

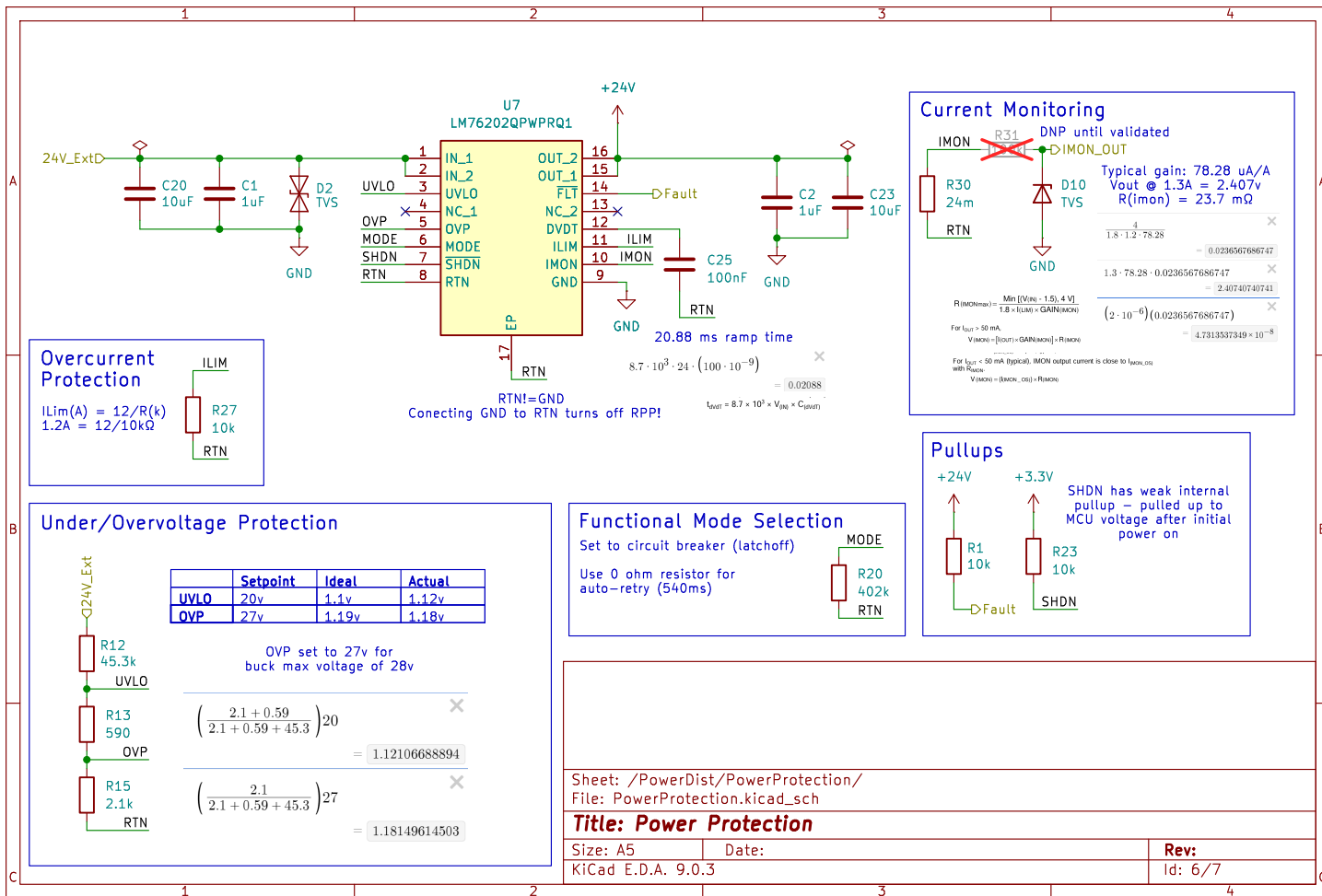
Size: A4

Date:

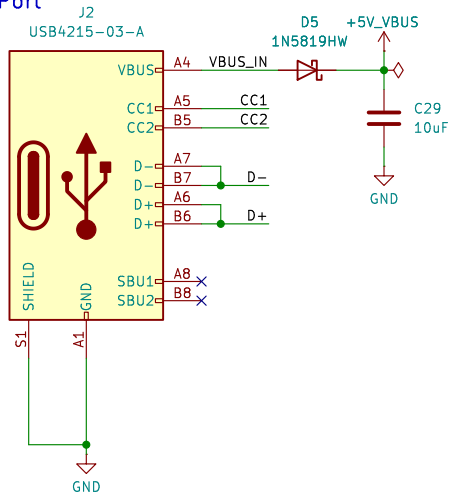
KiCad E.D.A. 9.0.3

Rev:

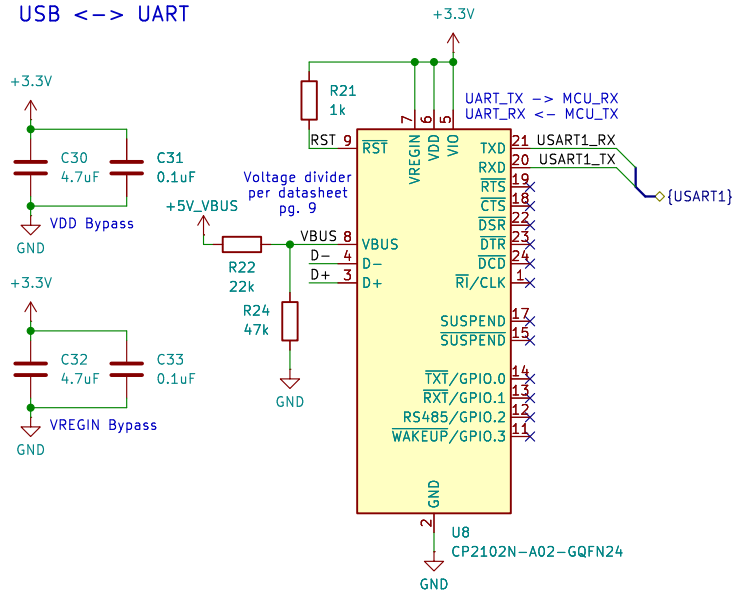
Id: 4/7



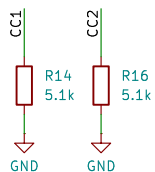
## USB-C Port



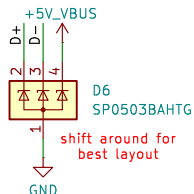
## USB <--> UART



## CCx Pulldown



## USB Protection



Sheet: /USB/  
File: USB.kicad\_sch

**Title: USB**

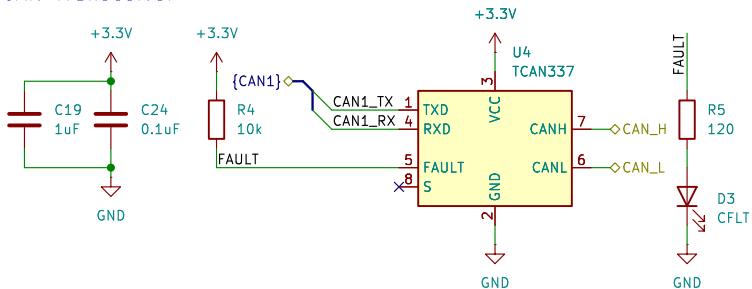
Size: A5  
KiCad E.D.A. 9.0.3

Date:

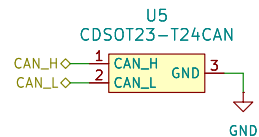
Rev:

Id: 3/7

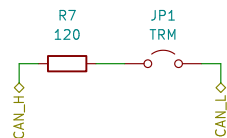
## CAN Transceiver



## CAN Bus Protection



## CAN Bus Termination



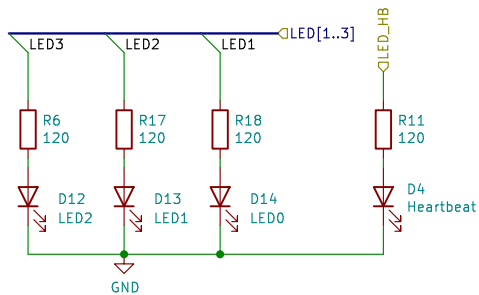
Sheet: /CAN/  
File: CAN.kicad\_sch

**Title: CAN**

Size: A5  
KiCad E.D.A. 9.0.3

Date:

Rev:  
Id: 2/7



Sheet: /LEDs/  
File: Leds.kicad\_sch

**Title: LEDs**

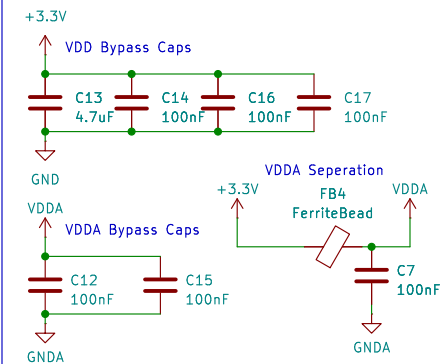
Size: A5  
KiCad E.D.A. 9.0.3

Date:

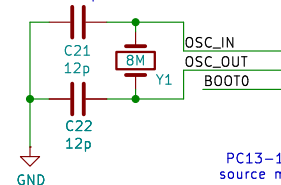
Rev:

Id: 5/7

## Bypass/Seperation

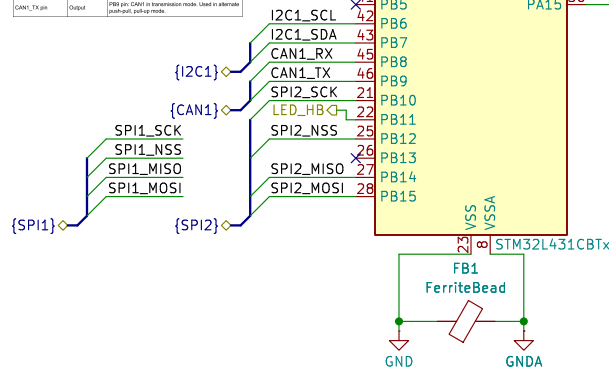


The crystal and caps have to be as close to the uC as possible and no traces should go underneath these components or connections.

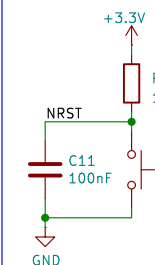


## CAN bootloader pins

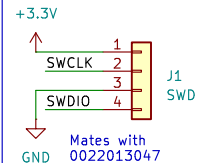
CAN1	Enabled	Once initialized the CAN1 configuration is: Baudrate 500Kbps, 11-bit identifier.
CAN1_RX pin	Input	PinB pin. CAN1 in reception mode. Used in alternate peripheral control mode.
CAN1_TX pin	Output	PinB pin. CAN1 in transmission mode. Used in alternate peripheral control mode.



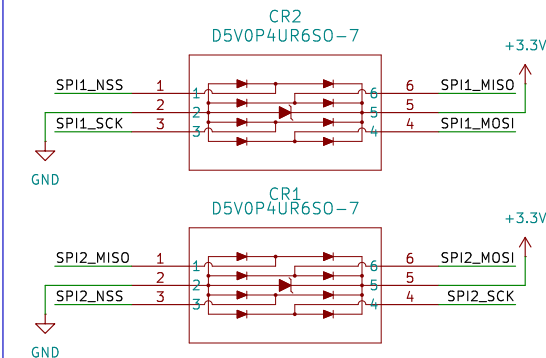
## Reset Button



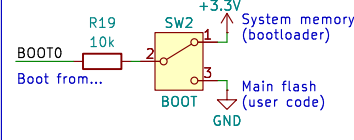
## SWD Connector



## SPI Protection

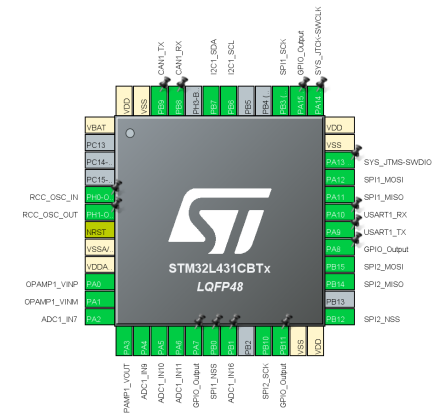


## Boot Switch



## Primary Pin Functions

add list of alternate functions



Sheet: /MCU/  
File: STM32L431CBT6.kicad\_sch

## Title: MCU

Size: User Date:  
KiCad E.D.A. 9.0.3

Rev:  
Id: 7/7