マイコン側のラベルと階層シート側のラベルをそれぞれ対応するように

電解コンの耐圧注意

Power
V_Meas.
File: Power.kicad_sch

マイコン

HSE
C5 22pF
Y2 16MHz
C6 22pF
HSE_IN
HSE_OUT
GNDD

NRST
SW1 SW_SPST
C2 0.1uF
GNDD

BOOT0
R1 10k
GNDD

書き込み
J1 Conn_01x14_Pin
D1 1N5819WS
R62 1k
SWDIO
SWCLK
SWO
NRST
GNDD

パスコン
C1 0.1uF
C3 0.1uF
C4 0.1uF
C7 0.1uF
GNDD

F446RE
U2 STM32F446RETx
+3.3V
C9 1uF
C11 4.7uF
R2 10k
NRST
BOOT0
VCAP_1
HSE_IN
HSE_OUT
SWDIO
SWCLK
SWO
VBAT VDD VDD VDD VDD VDD VDDA
VSS VSS VSS VSS VSSA
PA0 PA1 PA2 PA3 PA4 PA5 PA6 PA7 PA8 PA9 PA10 PA11 PA12 PA13 PA14 PA15
PB0 PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB12 PB13 PB14 PB15
PC0 PC1 PC2 PC3 PC4 PC5 PC6 PC7 PC8 PC9 PC10 PC11 PC12 PC13 PC14 PC15
PH0 PH1 PD2

MainTXx_RS485RingXRX
MainRXx_RS485RingXTX
MainTXx_RS485RingYRX
MainRXx_RS485RingYTX
MainTXx_RS485MDRX
MainRXx_RS485MDTX
SDAx
SCLx
CSx_Mouse
SCLKx
MOSIx
MISOx
INT_BNO
Main->RST_BNO
Main->INT_Mouse
LED_LG0
LED_Y0
LED_nR0
LED_B0
LED_B1
SlideSW0
DIPSW0
DIPSW1
DIPSW2
DIPSW3
V_Meas.
SHDN/BOOT

RS485_RingNW
MainTX_RS485RingX_RX
MainRX_RS485RingX_TX
MainTX_RS485RingY_RX
MainRX_RS485RingY_TX
File: RS485_RingNW.kicad_sch

RS485_MD
MainTX_RS485MD_RX
MainRX_RS485MD_TX
File: RS485_MD.kicad_sch

UI
LED_LG0
LED_Y0
LED_nR0
LED_B0
LED_B1
SlideSW0
DIPSW0
DIPSW1
DIPSW2
DIPSW3
File: UI.kicad_sch

BNO055
I2C_SDA
I2C_SCL
INT
nRST
File: BNO055.kicad_sch

Mouse
MOSI
MISO
CLK
CS
INT
File: Mouse.kicad_sch

ShutDown/BOOT Switch
C10 0.1uF
SW5 SW_SPST
R68 10k
SHDN/BOOT
GNDD

Main to BNO055 Reset
Q15 BSS138
R3 10k
RST_BNO
Main->RST_BNO
GNDD

Main to PIM573 Initialize
Q16 BSS138
R59 10k
INT_Mouse
Main->INT_Mouse
GNDD

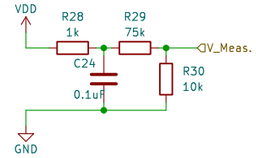
Sheet: /
File: Drive.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 7.0.11
Id: 1/7

PowerModule

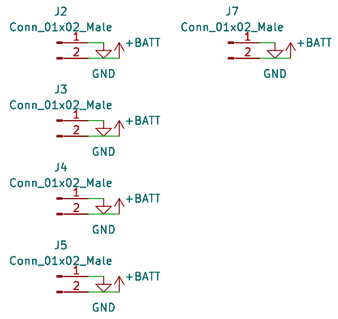
Conn to Power

主電源スイッチ

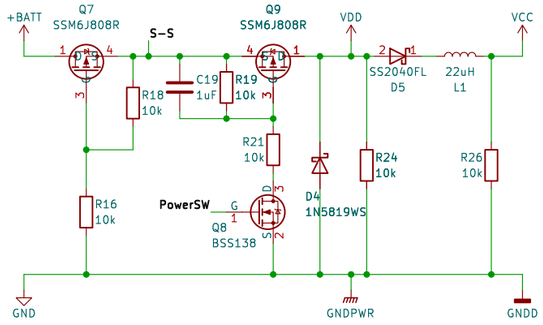
電源電圧測定



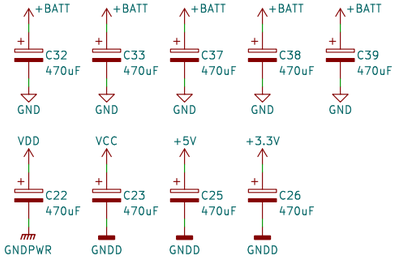
Conn to EachBoard



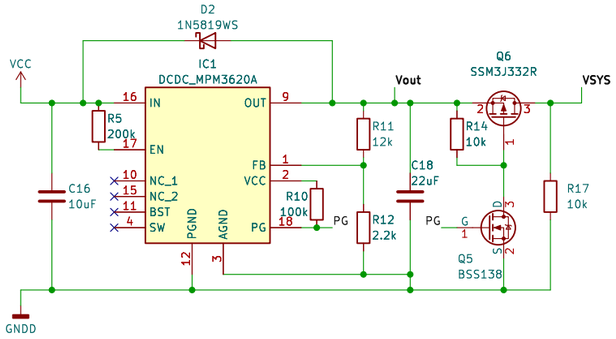
保護回路・スイッチ



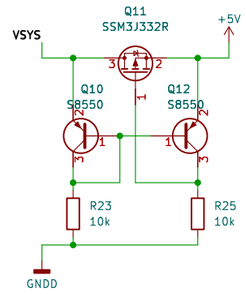
Capacitor



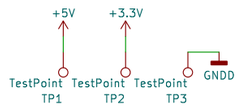
5V生成



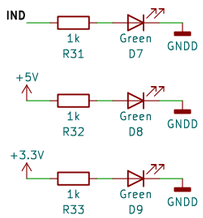
理想ダイオード/5VSYS



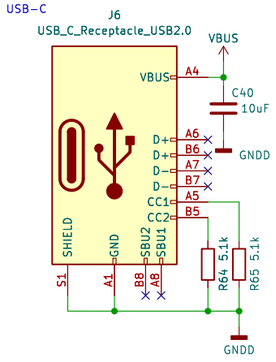
TestPoint



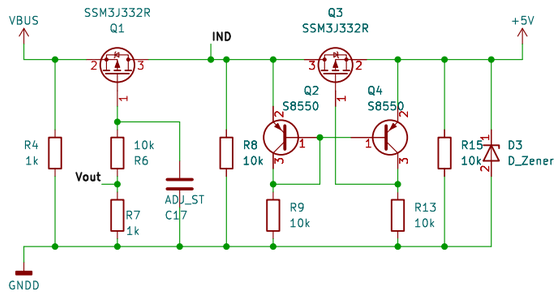
インジケーターLED



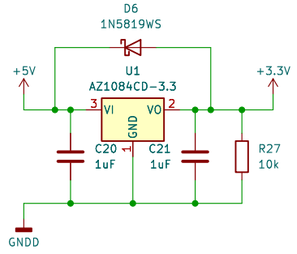
USB-C



電源切替/USB



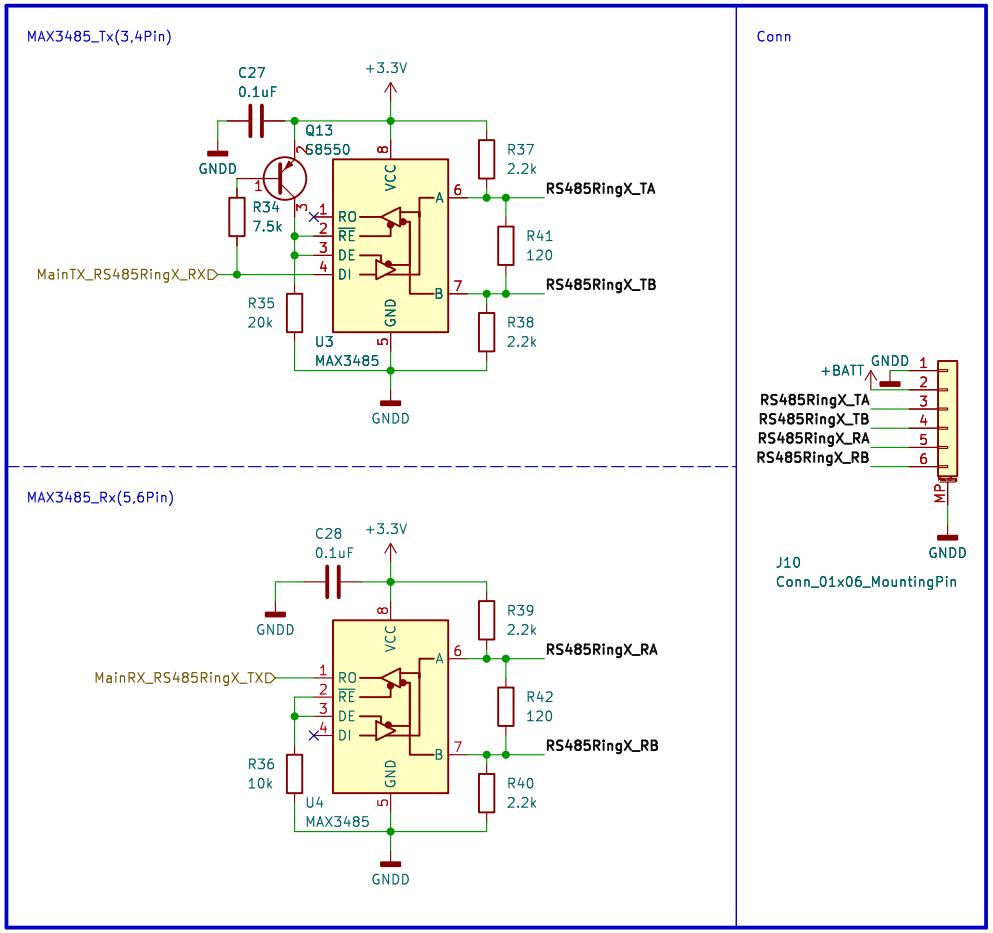
3.3V生成



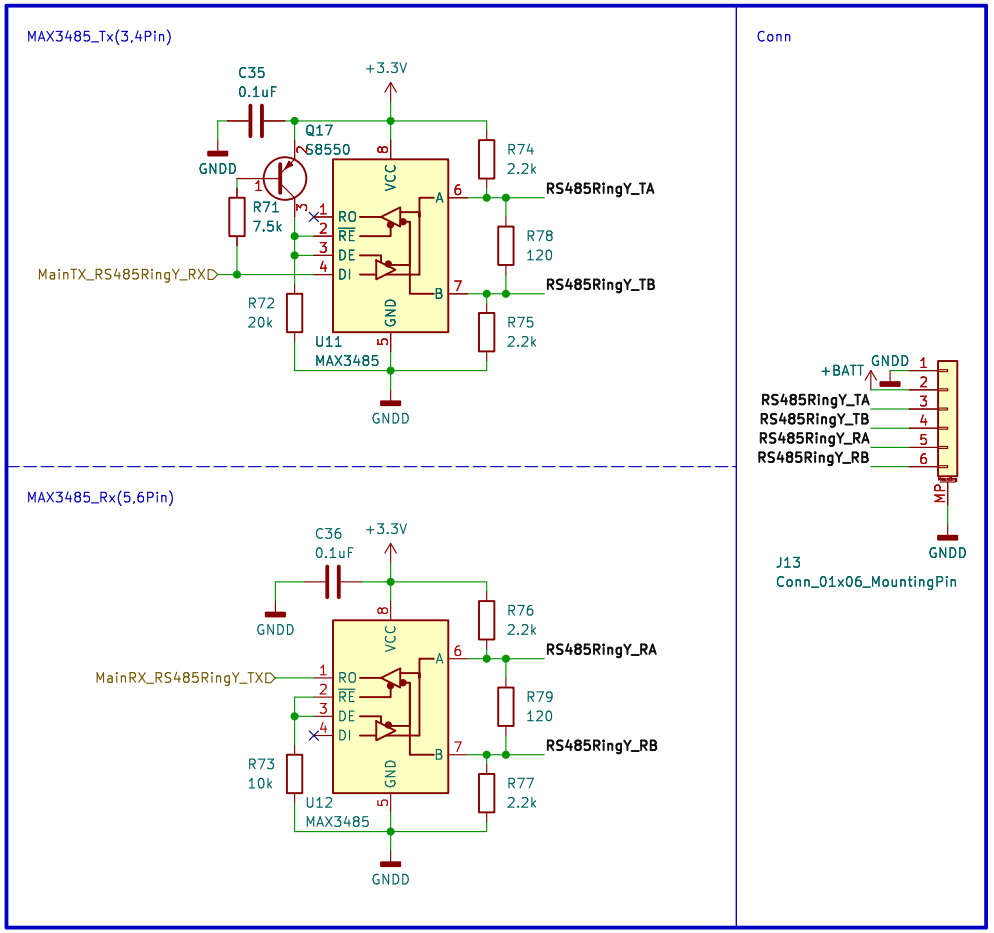
電源スイッチ　耐圧大丈夫？
三端子を新しく選定したのにする
電源直付けのための穴を設定する
電源平滑コンデンサは基板設計の時に良い感じに数調整

Sheet: /Power/	
File: Power.kicad_sch	
Title:	
Size: A3	Date:
KiCad E.D.A. kicad 7.0.11	Id: 2/7

RS485_RingNW_X



RS485_RingNW_Y



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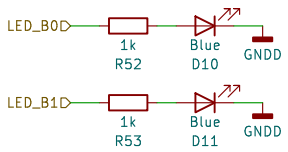
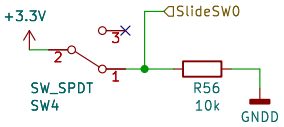
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.11		Id: 3/7

I/O

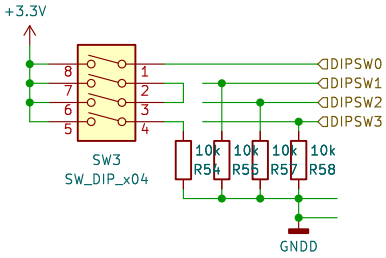
LED



スライドスイッチ

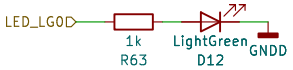


DIPスイッチ

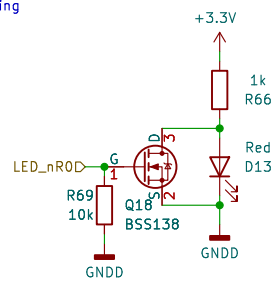


Indicator

Running



not Running



Error

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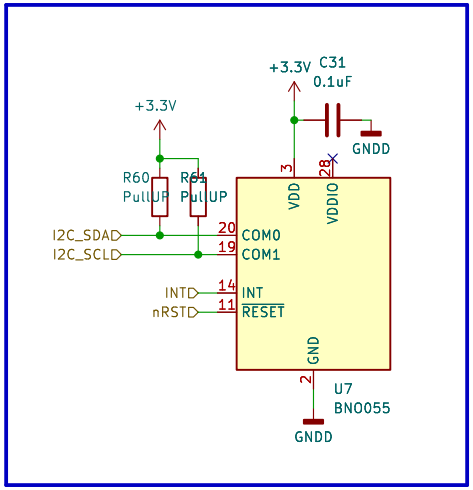
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.11		Id: 4/7

BNO055



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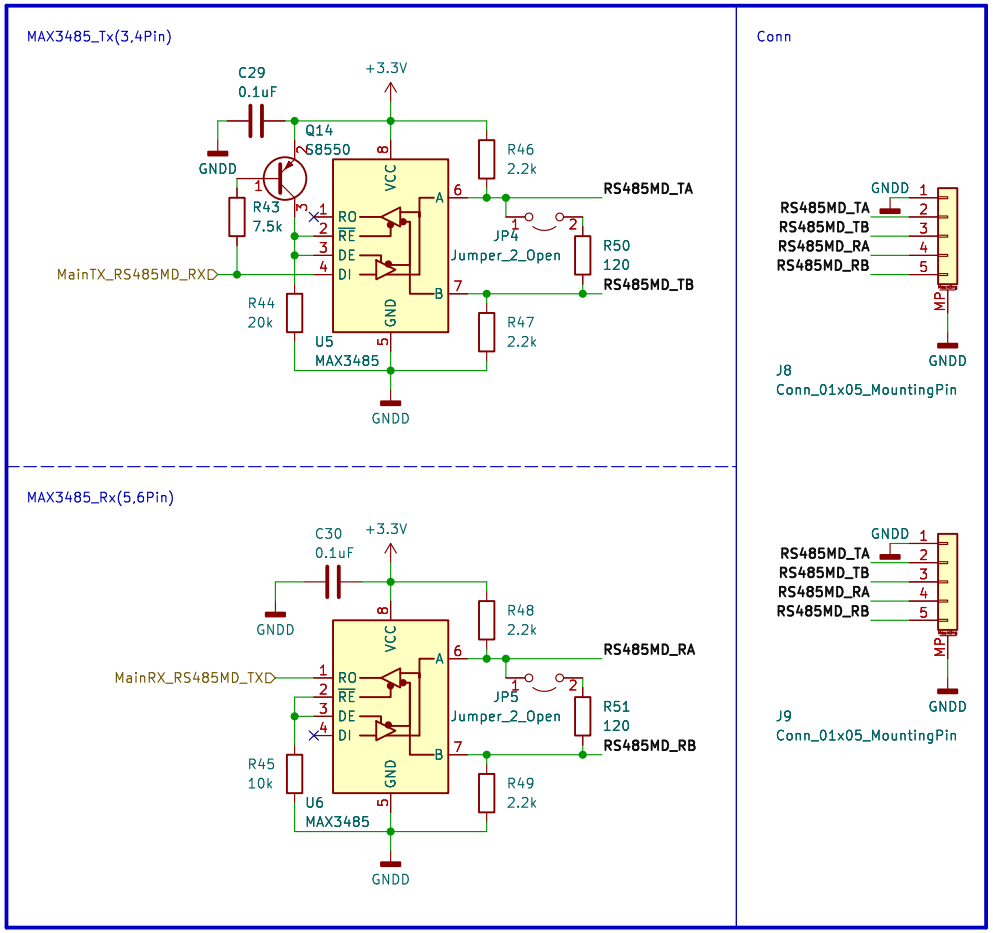
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.11		Id: 5/7

RS485_RingNW_X

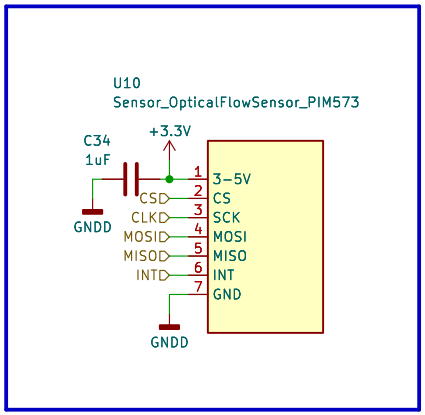


Sheet: /RS485_MD/
File: RS485_MD.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.11		Id: 7/7

マウスセンサー



配置時は裏向きになるのでフットプリント注意
表面につくけど裏向きになる

Sheet: /Mouse/ File: Mouse.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.11		Id: 8/7