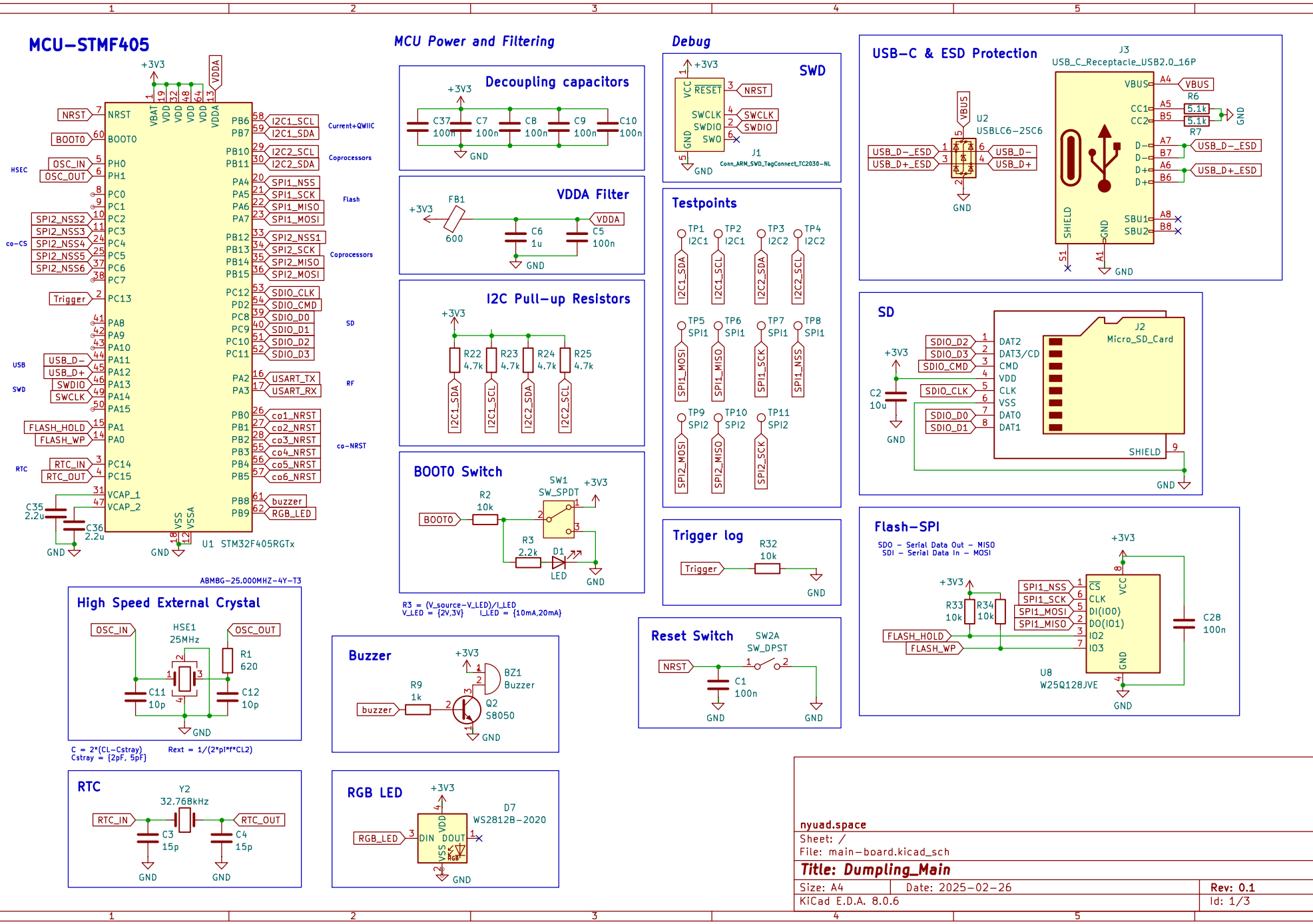
MCU-STMF405
MCU Power and Filtering
Debug
USB-C & ESD Protection
Decoupling capacitors
SWD
J3
USB_C_Receptacle_USB2.0_16P
VDDA Filter
Testpoints
SD
I2C Pull-up Resistors
BOOT0 Switch
Trigger log
Flash-SPI
High Speed External Crystal
Reset Switch
Buzzer
RTC
RGB LED
U1 STM32F405RGTx
U2 USBLC6-2SC6
J1 Conn_ARM_SWD_TagConnect_TC2030-NL
J2 Micro_SD_Card
U8 W25Q128JVE
ABMBG-25.000MHZ-4Y-T3
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Date: 2025-02-26
Rev: 0.1
KiCad E.D.A. 8.0.6
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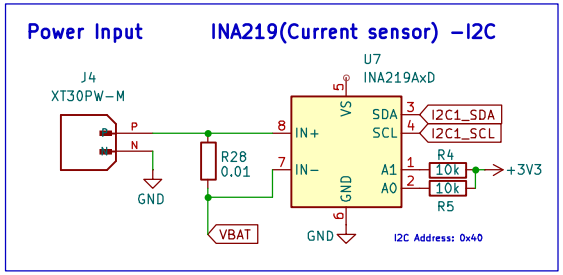

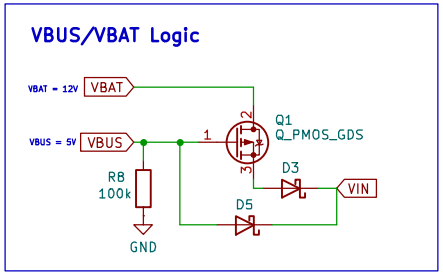

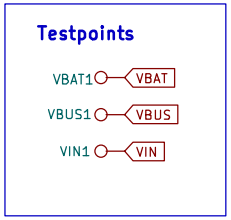

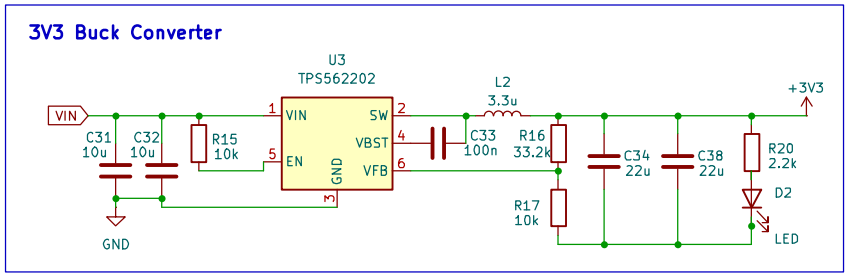

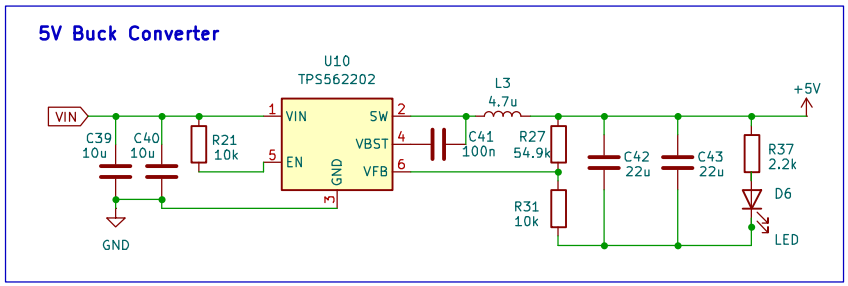

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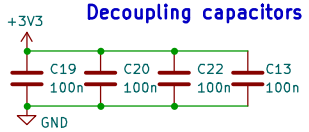
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 2/3

co1-STMF411

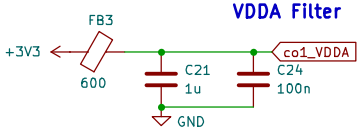
MCU Power and Filtering

Label-Traverse!

Decoupling capacitors

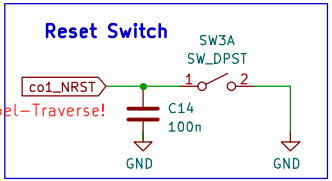


VDDA Filter

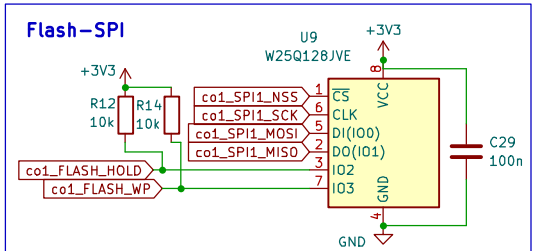


I2C Pull-up Resistors

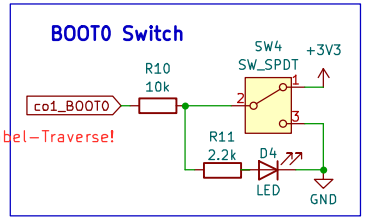
Reset Switch



Flash-SPI

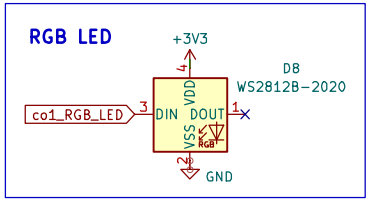


BOOT0 Switch



R3 = (V_source-V_LED)/I_LED
V_LED = {2V,3V} I_LED = {10mA,20mA}

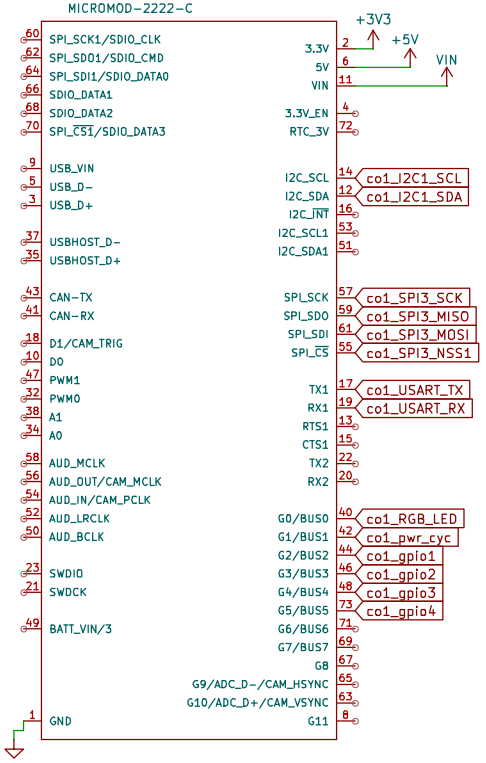
RGB LED



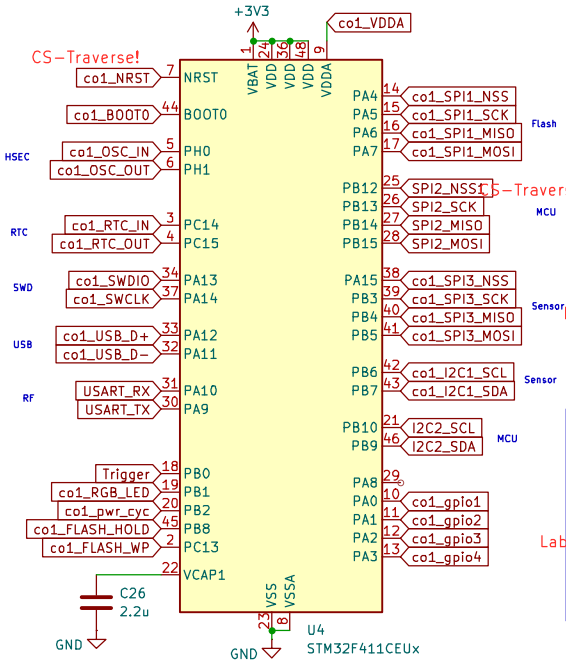
M.2(1)

SDO – Serial Data Out – MISO
SDI – Serial Data In – MOSI

J7
MICROMOD-2222-C

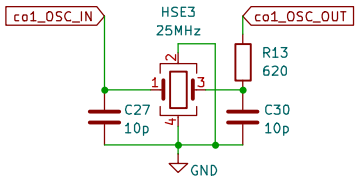


CS-Traverse!



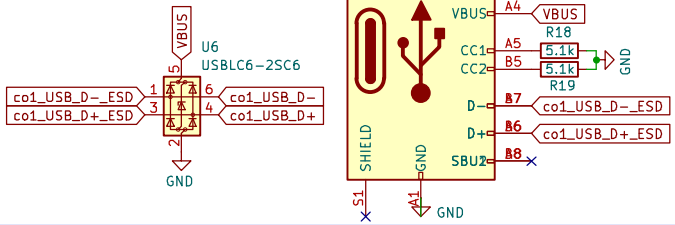
High Speed External Crystal

ABM8G-25.000MHZ-4Y-T3

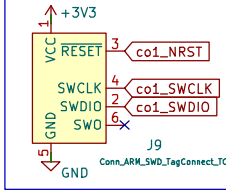


C11 = C12 = 2*(CL-Cstray)
Cstray = {2pF, 5pF}
Rext = 1/(2*pi*f*CL2)

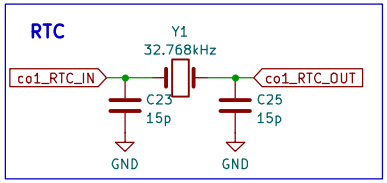
USB-C & ESD Protection



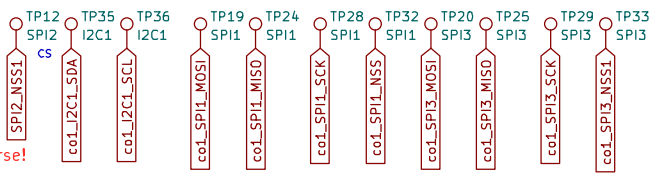
SWD



RTC



Testpoints



CS-Traverse!

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KiCad E.D.A. 8.0.6		Id: 3/3