

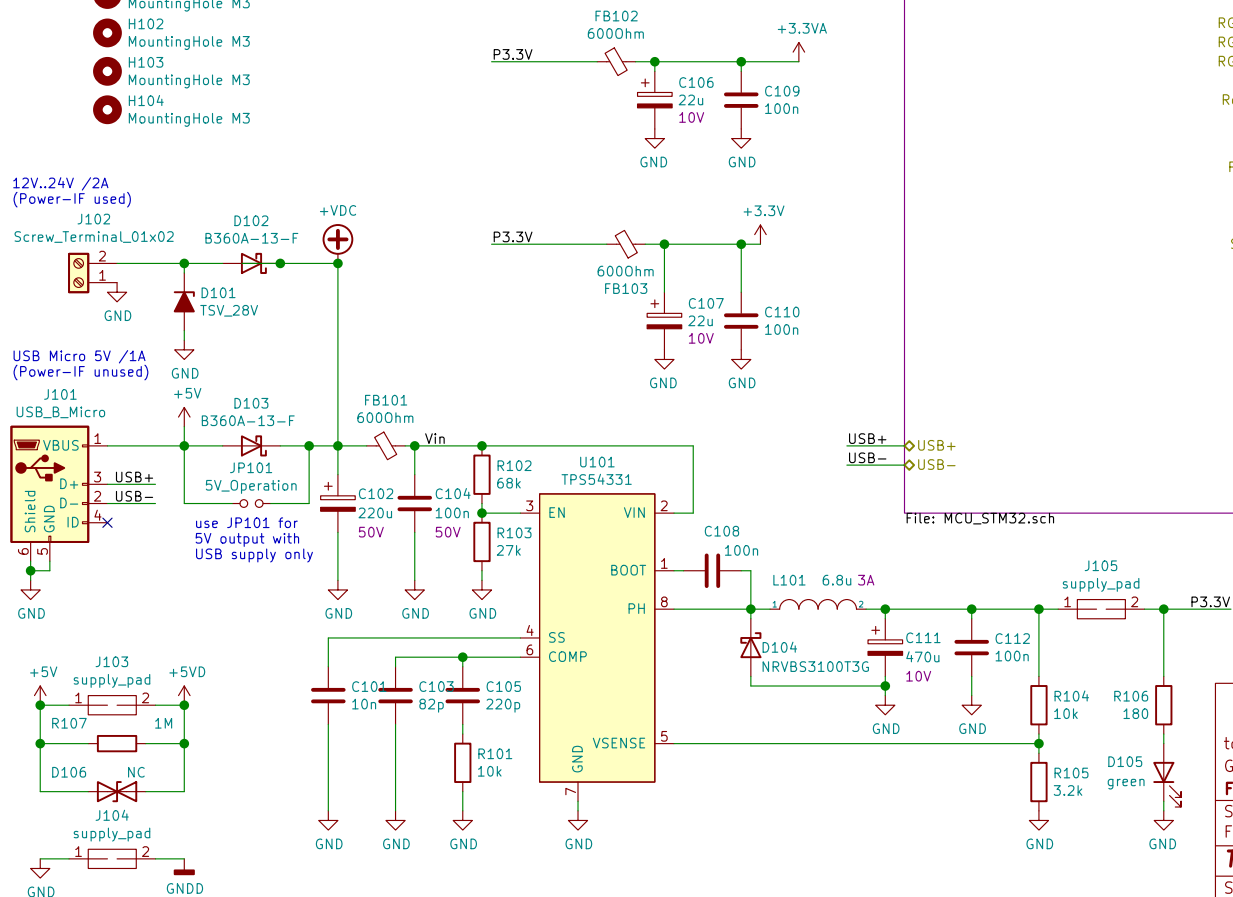


Fachhochschule Nordwestschweiz Hochschule für Technik

- STM32 ARM Cortex-M0 Microcontroller Board
- 128 KB Flash 48MHZ
 - Mikro-USB Supply or external 5...24V Supply
 - SWD Programming Interface
 - 128x64 OLED Display
 - 7x5 LED Dot Matrix
 - RGB LED
 - Audio Speaker
 - Unipolar Stepper IF
 - 2 Potentiometer Inputs
 - 5 Push-buttons
 - 2 Analog In 0..10V
 - RS485 IF
 - USB IF
 - SPI IF
 - 2 Opendrain Power Outputs



- H101 MountingHole M3
- H102 MountingHole M3
- H103 MountingHole M3
- H104 MountingHole M3



Sheet: MCU_STM32

stp_cntrl_AD stp_cntrl_A
stp_cntrl_AD stp_cntrl_A
stp_cntrl_AD stp_cntrl_B
stp_cntrl_AD stp_cntrl_B
cntrl_OD1D cntrl_OD1
cntrl_OD2D cntrl_OD2
EXT_IN1_AD EXT_IN1_AD
EXT_IN2_AD EXT_IN2_AD

Sheet: PWR-Stepper-IF

stp_cntrl_LA stp_cntrl_LA
stp_cntrl_LA stp_cntrl_LA
stp_cntrl_B stp_cntrl_B
stp_cntrl_B stp_cntrl_B
cntrl_OD1D cntrl_OD1
cntrl_OD2D cntrl_OD2
EXT_IN1_AD EXT_IN1_AD
EXT_IN2_AD EXT_IN2_AD

File: PWR-Stepper-IF.sch

I2C_SCL1D I2C_SCL1
I2C_SDA1D I2C_SDA1
DotMatrix_Row[0..6] DotMatrix_Row[0..6]
DotMatrix_Col[0..5] DotMatrix_Col[0..5]

Sheet: User_IF

I2C_SCL1 I2C_SCL1
I2C_SDA1 I2C_SDA1
DotMatrix_Row[0..6] DotMatrix_Row[0..6]
DotMatrix_Col[0..5] DotMatrix_Col[0..5]

File: User_IF.sch

RGB_LED1_RD RGB_LED1_R
RGB_LED1_GD RGB_LED1_G
RGB_LED1_BD RGB_LED1_B
Rot_Enc_SW Rot_Enc_SW
Rot_Enc_A Rot_Enc_A
Rot_Enc_B Rot_Enc_B
PWM_AudioD PWM_Audio
Pot1_AD Pot1_AD
Pot2_AD Pot2_AD
SW_Analog SW_Analog

Sheet: Com_IF

RS485_RX RS485_RX
RS485_TX RS485_TX
SPL_NSSD SPL_NSS
SPL_CLKD SPL_CLK
SPL_MISD SPL_MISO
SPL_MOSID SPL_MOSI

File: Com_IF.sch

USB+ USB+
USB- USB-
File: MCU_STM32.sch

top page
Gla2 FS2021
FHNW

Sheet: /
File: ARM_CortexM0_eval.sch

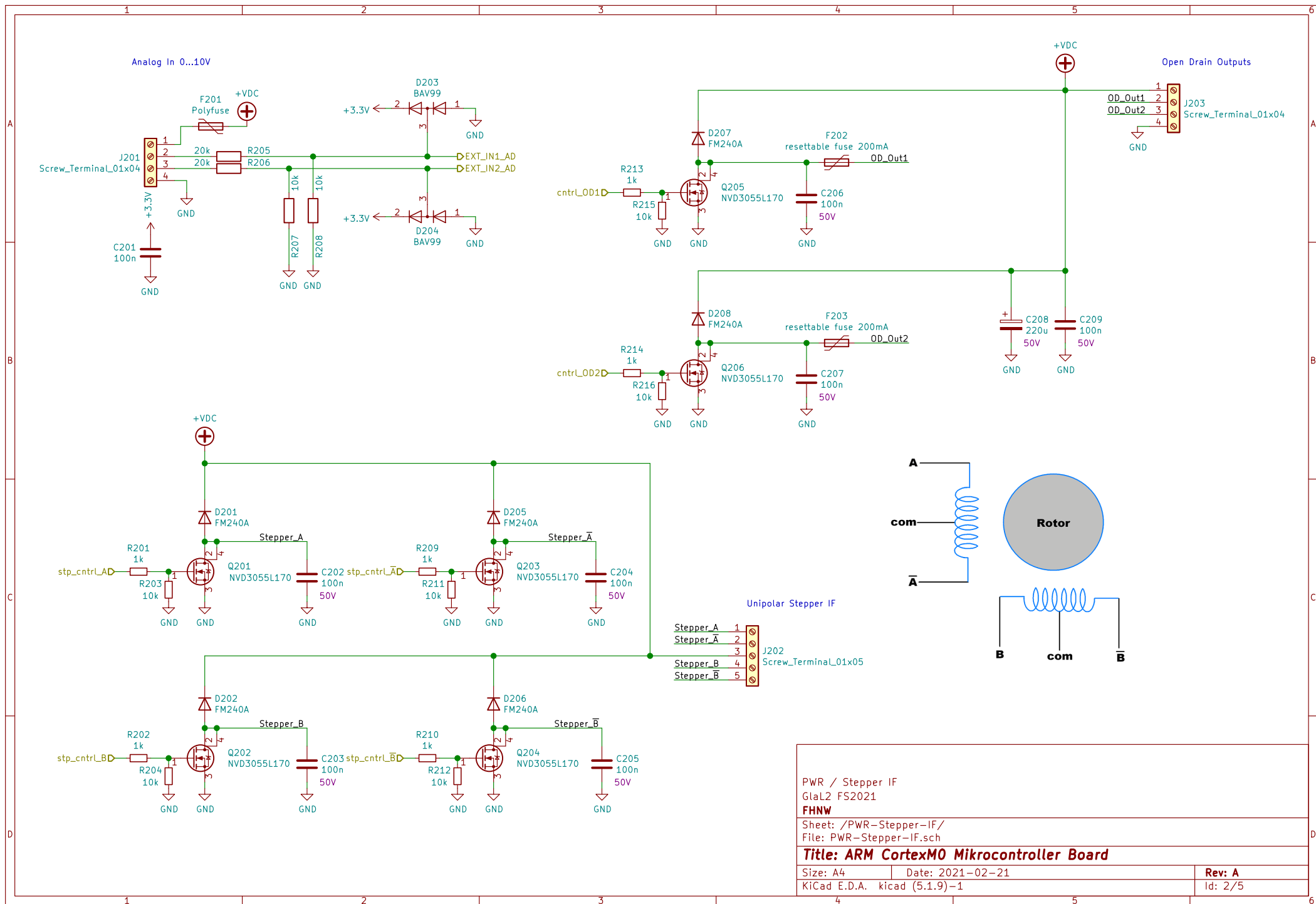
Title: ARM CortexM0 Mikrocontroller Board

Size: A4 Date: 2021-02-21

KiCad E.D.A. kicad (5.1.9)-1

Rev: A

Id: 1/5



PWR / Stepper IF
Gla2 FS2021

FHNW

Sheet: /PWR-Stepper-IF/
File: PWR-Stepper-IF.sch

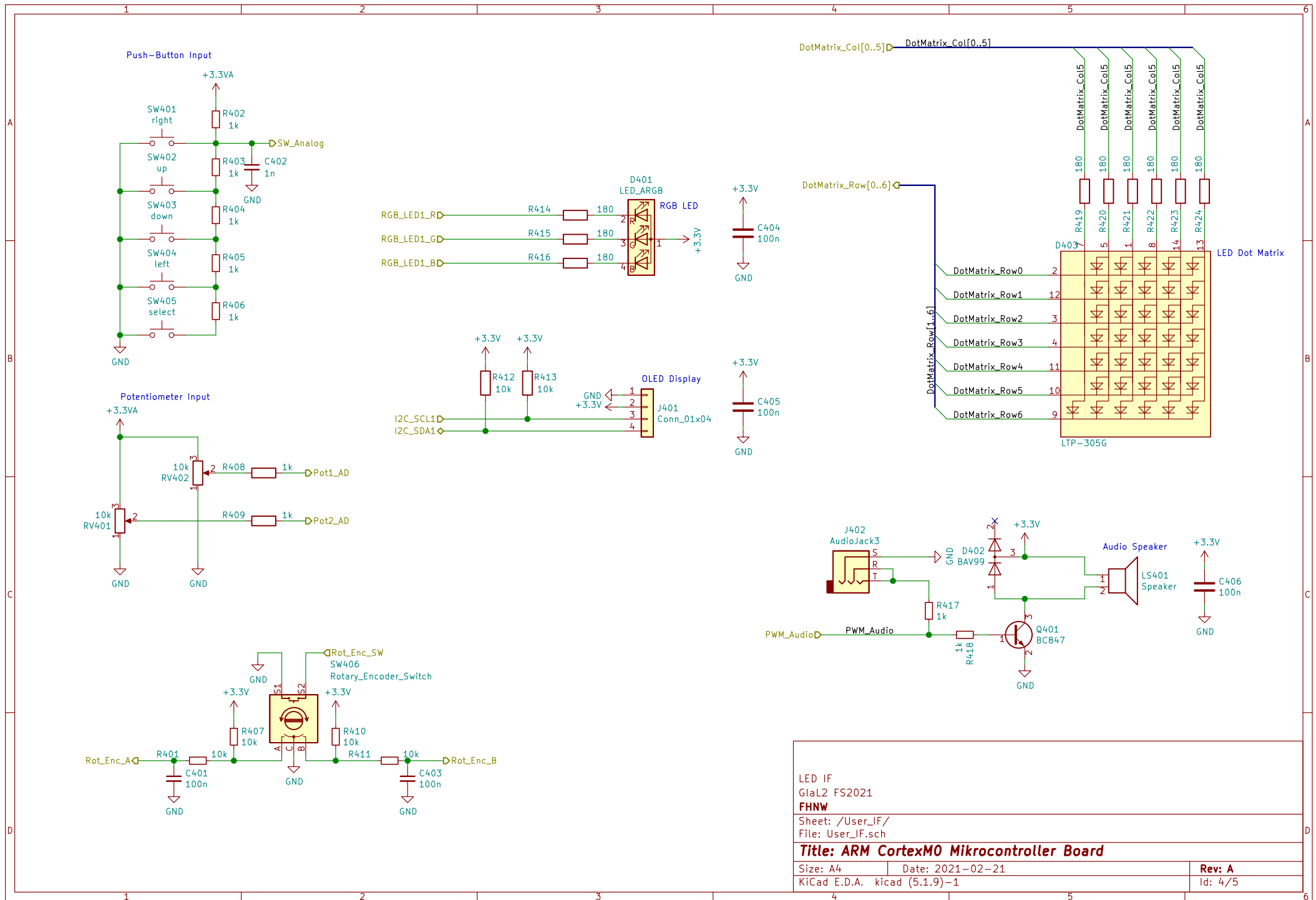
Title: ARM CortexM0 Mikrocontroller Board

Size: A4 Date: 2021-02-21

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Rev: A

Id: 2/5



LED IF
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File: User_IF.sch

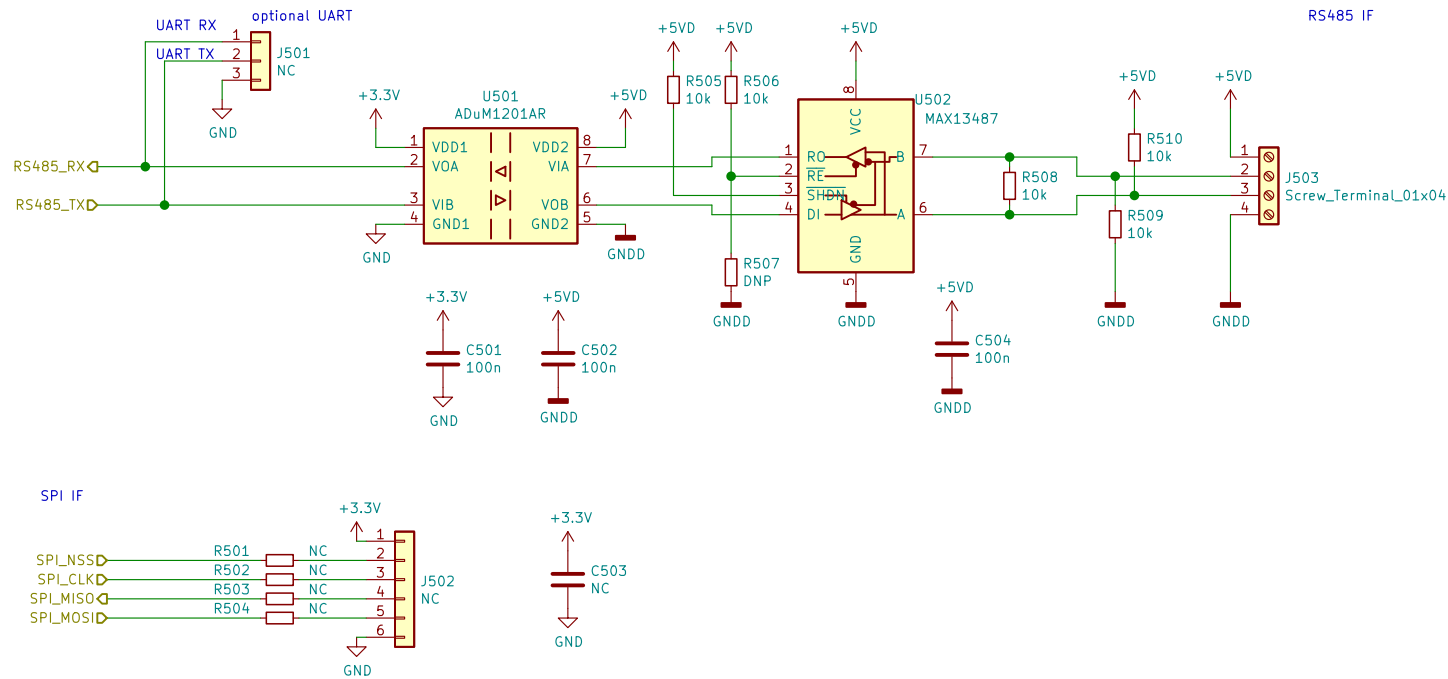
Title: ARM CortexM0 Mikrocontroller Board

Size: A4 Date: 2021-02-21

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Rev: A

Id: 4/5



Analog IF
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Sheet: /Com_IF/
File: Com_IF.sch

Title: ARM CortexM0 Mikrocontroller Board

Size: A4 Date: 2021-02-21

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Rev: A

Id: 5/5