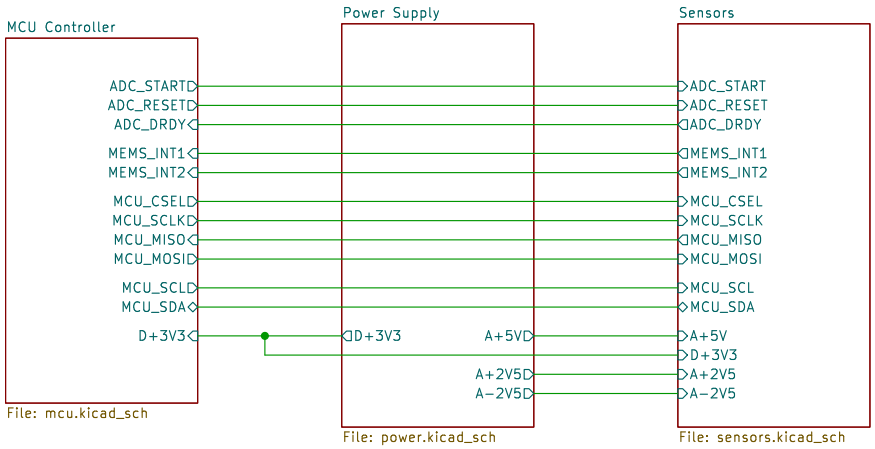

H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole

FID1 Fiducial
FID2 Fiducial
FID3 Fiducial

AnyShake Project

Sheet: /
File: Explorer.kicad_sch

Title: AnyShake Explorer

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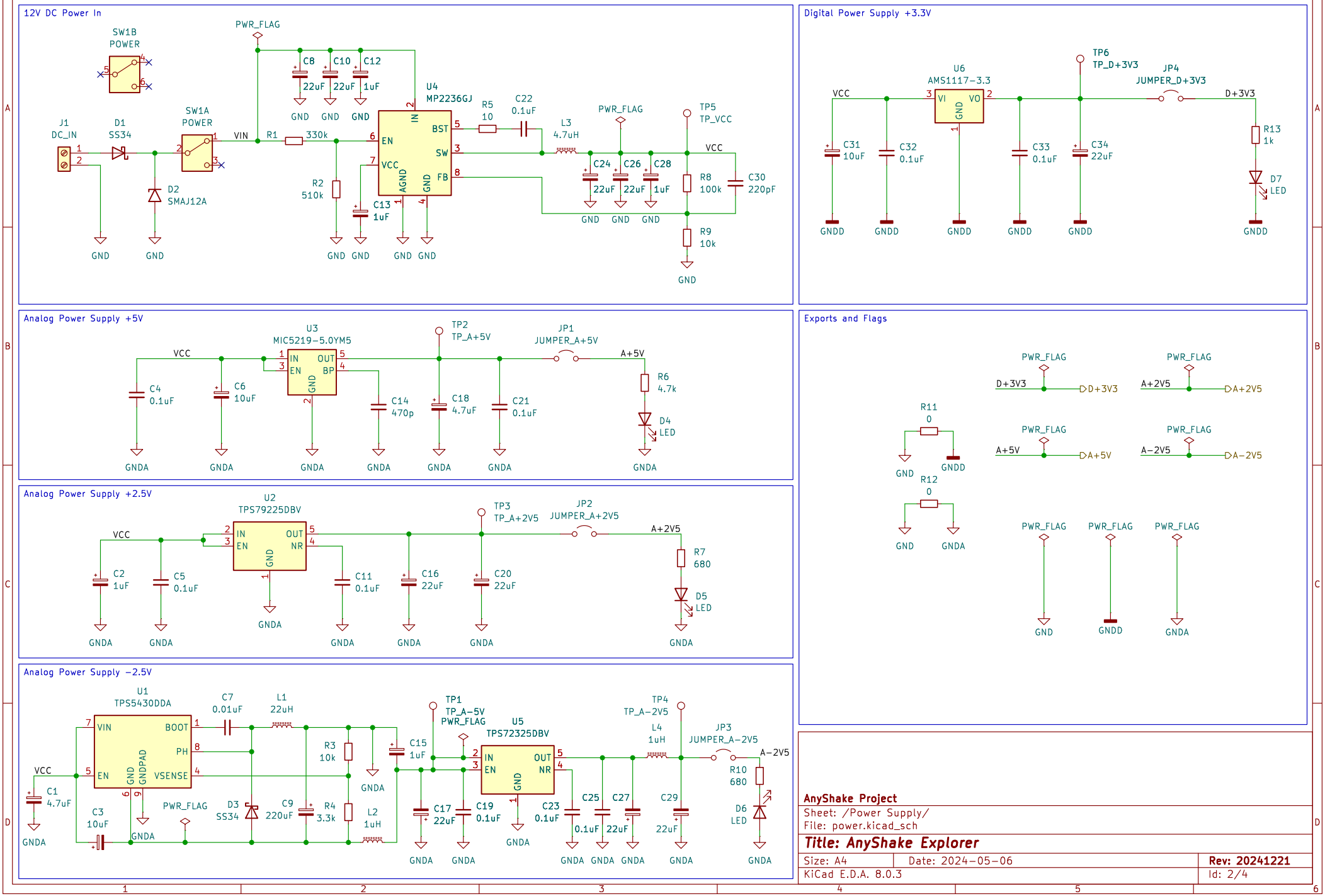
12V DC Power In
SW1B
POWER
PWR_FLAG
C8
22uF
C10
22uF
C12
1uF
U4
MP2236GJ
R5
10
C22
0.1uF
L3
4.7uH
PWR_FLAG
TP5
TP_VCC
J1
DC_IN
D1
SS34
SW1A
POWER
VIN
R1
330k
R2
510k
C13
1uF
C24
22uF
C26
22uF
C28
1uF
R8
100k
C30
220pF
R9
10k
D2
SMAJ12A
GND
Digital Power Supply +3.3V
U6
AMS1117-3.3
TP6
TP_D+3V3
JP4
JUMPER_D+3V3
D+3V3
VCC
C31
10uF
C32
0.1uF
C33
0.1uF
C34
22uF
R13
1k
D7
LED
GNDD
Analog Power Supply +5V
U3
MIC5219-5.0YM5
TP2
TP_A+5V
JP1
JUMPER_A+5V
A+5V
C4
0.1uF
C6
10uF
C14
470p
C18
4.7uF
C21
0.1uF
R6
4.7k
D4
LED
GNDA
Exports and Flags
R11
0
R12
0
PWR_FLAG
D+3V3
A+2V5
A+5V
A-2V5
Analog Power Supply +2.5V
U2
TPS79225DBV
TP3
TP_A+2V5
JP2
JUMPER_A+2V5
A+2V5
C2
1uF
C5
0.1uF
C11
0.1uF
C16
22uF
C20
22uF
R7
680
D5
LED
Analog Power Supply -2.5V
U1
TPS5430DDA
C7
0.01uF
L1
22uH
TP1
TP_A-5V
PWR_FLAG
U5
TPS72325DBV
TP4
TP_A-2V5
L4
1uH
JP3
JUMPER_A-2V5
A-2V5
C1
4.7uF
C3
10uF
R3
10k
C15
1uF
C17
22uF
C19
0.1uF
C23
0.1uF
C25
0.1uF
C27
22uF
C29
22uF
R10
680
D3
SS34
C9
220uF
R4
3.3k
L2
1uH
D6
LED
GNDA
AnyShake Project
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File: power.kicad_sch
Title: AnyShake Explorer
Size: A4
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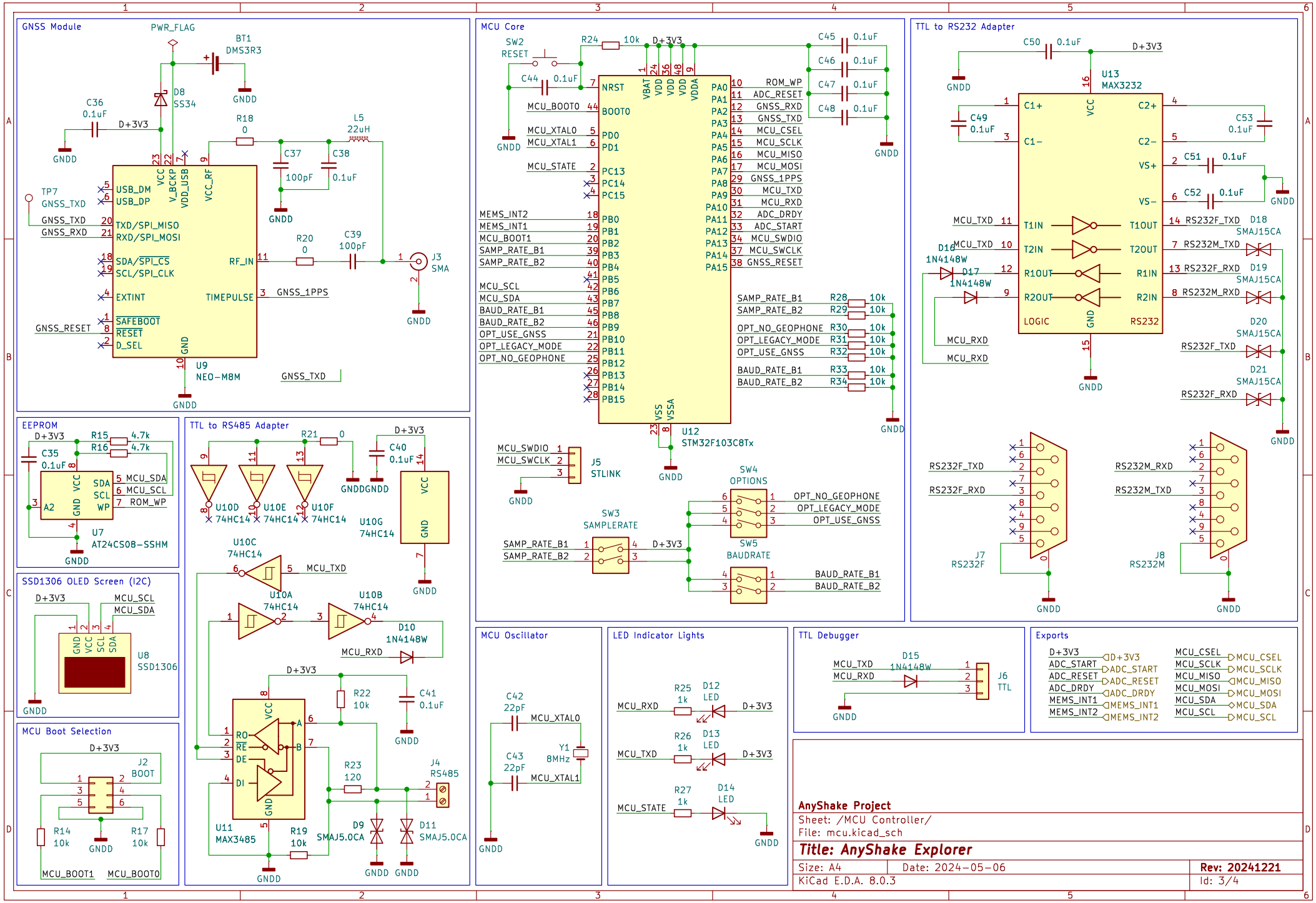
GNSS Module
PWR_FLAG
BT1
DMS3R3
D8
SS34
C36
0.1uF
D+3V3
GNDD
R18
0
L5
22uH
C37
100pF
C38
0.1uF
TP7
GNSS_TXD
GNSS_RXD
GNSS_RESET
USB_DM
USB_DP
TXD/SPI_MISO
RXD/SPI_MOSI
SDA/SPI_CS
SCL/SPI_CLK
EXTINT
SAFEBOOT
RESET
D_SEL
VCC
V_BCKP
VDD_USB
VCC_RF
RF_IN
TIMEPULSE
GND
R20
0
C39
100pF
J3
SMA
GNSS_1PPS
U9
NEO-M8M
MCU Core
SW2
RESET
R24
10k
C44
0.1uF
NRST
BOOT0
MCU_BOOT0
MCU_XTAL0
MCU_XTAL1
PD0
PD1
MCU_STATE
PC13
PC14
PC15
VBAT
VDD
VDDA
VSS
VSSA
C45
C46
C47
C48
0.1uF
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
ROM_WP
ADC_RESET
GNSS_RXD
GNSS_TXD
MCU_CSEL
MCU_SCLK
MCU_MISO
MCU_MOSI
GNSS_1PPS
MCU_TXD
MCU_RXD
ADC_DRDY
ADC_START
MCU_SWDIO
MCU_SWCLK
GNSS_RESET
MEMS_INT2
MEMS_INT1
MCU_BOOT1
SAMP_RATE_B1
SAMP_RATE_B2
MCU_SCL
MCU_SDA
BAUD_RATE_B1
BAUD_RATE_B2
OPT_USE_GNSS
OPT_LEGACY_MODE
OPT_NO_GEOPHONE
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
U12
STM32F103C8Tx
R28
R29
R30
R31
R32
R33
R34
10k
J5
STLINK
SW3
SAMPLERATE
SW4
OPTIONS
SW5
BAUDRATE
TTL to RS232 Adapter
U13
MAX3232
C50
0.1uF
C49
0.1uF
C53
0.1uF
C51
0.1uF
C52
0.1uF
C1+
C1-
C2+
C2-
VS+
VS-
T1IN
T2IN
R1OUT
R2OUT
T1OUT
T2OUT
R1IN
R2IN
LOGIC
RS232
RS232F_TXD
RS232F_RXD
RS232M_TXD
RS232M_RXD
D16
1N4148W
D17
1N4148W
D18
SMAJ15CA
D19
SMAJ15CA
D20
SMAJ15CA
D21
SMAJ15CA
J7
RS232F
J8
RS232M
EEPROM
R15
4.7k
R16
4.7k
C35
0.1uF
A2
WP
U7
AT24CS08-SSHM
TTL to RS485 Adapter
R21
0
C40
0.1uF
U10D
U10E
U10F
U10G
74HC14
U10C
U10A
U10B
D10
1N4148W
R22
10k
C41
0.1uF
RO
RE
DE
DI
U11
MAX3485
R23
120
R19
10k
J4
RS485
D9
SMAJ5.0CA
D11
SMAJ5.0CA
SSD1306 OLED Screen (I2C)
U8
SSD1306
MCU Boot Selection
J2
BOOT
R14
10k
R17
10k
MCU Oscillator
C42
22pF
C43
22pF
Y1
8MHz
LED Indicator Lights
R25
1k
R26
1k
R27
1k
D12
LED
D13
LED
D14
LED
TTL Debugger
D15
1N4148W
J6
TTL
Exports
D+3V3
ADC_START
ADC_RESET
ADC_DRDY
MEMS_INT1
MEMS_INT2
MCU_CSEL
MCU_SCLK
MCU_MISO
MCU_MOSI
MCU_SDA
MCU_SCL
AnyShake Project
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File: mcu.kicad_sch
Title: AnyShake Explorer
Size: A4
Date: 2024-05-06
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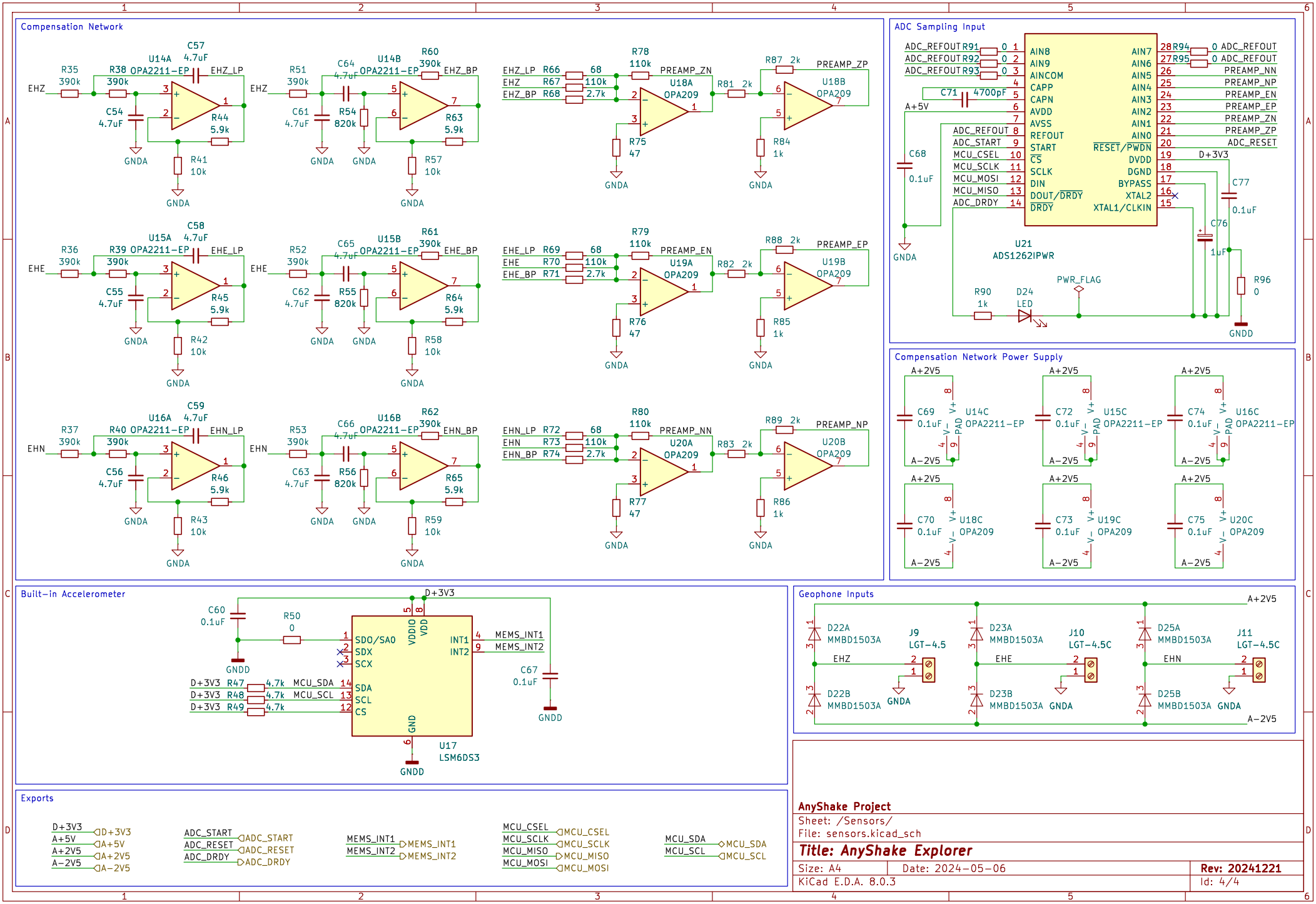
Compensation Network
ADC Sampling Input
Compensation Network Power Supply
Built-in Accelerometer
Geophone Inputs
Exports
AnyShake Project
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File: sensors.kicad_sch
Title: AnyShake Explorer
Size: A4
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Rev: 20241221
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