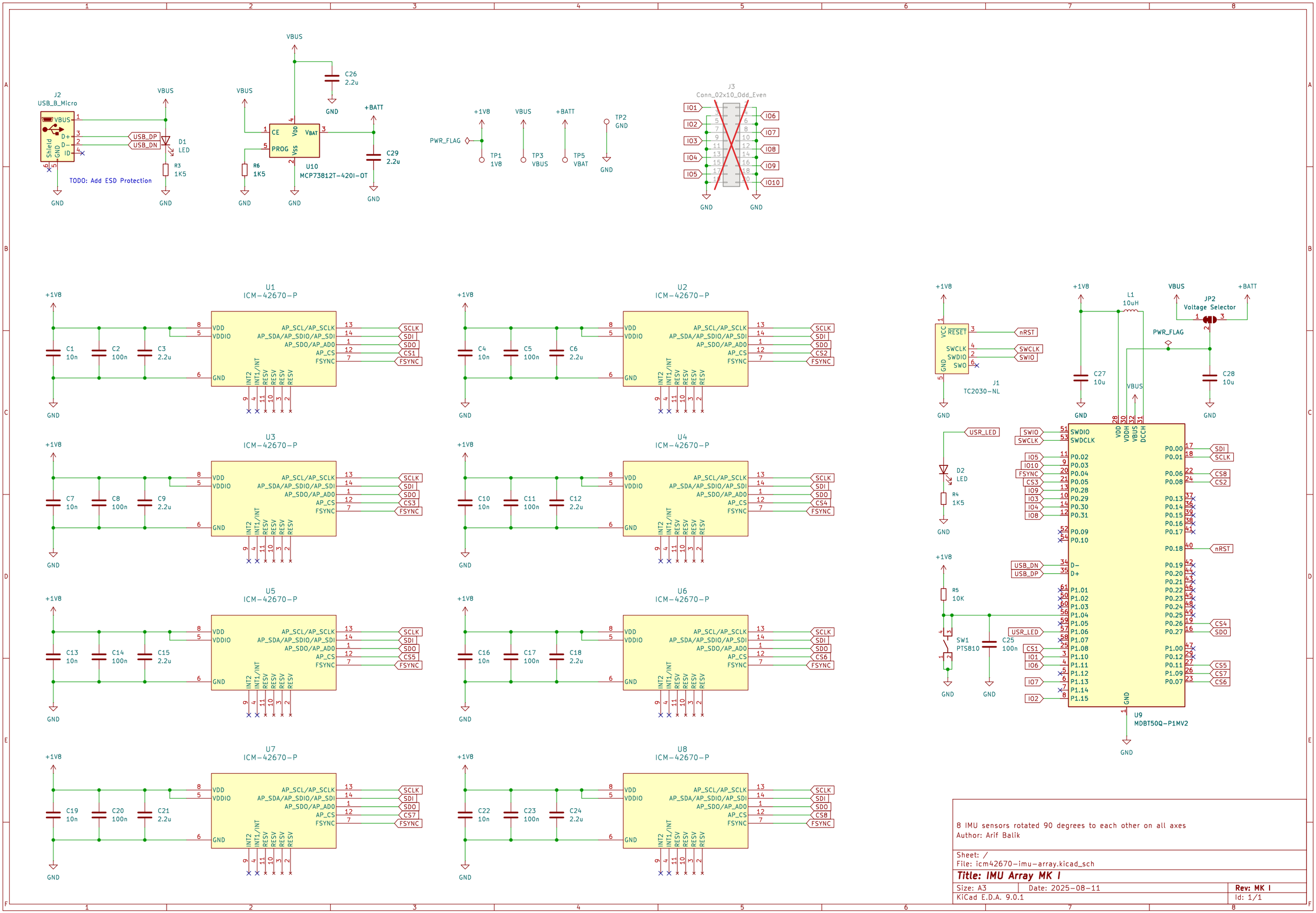
J2
USB_B_Micro
VBUS
D+
D-
ID
Shield
GND
USB_DP
USB_DN
D1
LED
R3
1K5
TODO: Add ESD Protection
C26
2.2u
CE
PROG
VDD
VSS
VBAT
+BATT
C29
2.2u
R6
1K5
U10
MCP73812T-420I-OT
+1V8
PWR_FLAG
TP1
1V8
TP3
VBUS
TP5
VBAT
TP2
J3
Conn_02x10_Odd_Even
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
U1
ICM-42670-P
C1
10n
C2
100n
C3
2.2u
VDD
VDDIO
GND
AP_SCL/AP_SCLK
AP_SDA/AP_SDIO/AP_SDI
AP_SDO/AP_AD0
AP_CS
FSYNC
INT2
INT1/INT
RESV
SCLK
SDI
SDO
CS1
U2
C4
10n
C5
100n
C6
2.2u
CS2
U3
C7
10n
C8
100n
C9
2.2u
CS3
U4
C10
10n
C11
100n
C12
2.2u
CS4
U5
C13
10n
C14
100n
C15
2.2u
CS5
U6
C16
10n
C17
100n
C18
2.2u
CS6
U7
C19
10n
C20
100n
C21
2.2u
CS7
U8
C22
10n
C23
100n
C24
2.2u
CS8
VCC
RESET
SWCLK
SWDIO
SWO
nRST
J1
TC2030-NL
L1
10uH
JP2
Voltage Selector
C27
10u
C28
10u
USR_LED
D2
LED
R4
1K5
R5
10K
SW1
PTS810
C25
100n
U9
MDBT50Q-P1MV2
SWDCLK
VDDH
DCCH
P0.02
P0.03
P0.04
P0.05
P0.28
P0.29
P0.30
P0.31
P0.09
P0.10
P0.18
P0.19
P0.20
P0.21
P0.22
P0.23
P0.24
P0.25
P0.26
P0.27
P0.00
P0.01
P0.06
P0.08
P0.13
P0.14
P0.15
P0.16
P0.17
P1.01
P1.02
P1.03
P1.04
P1.05
P1.06
P1.07
P1.08
P1.10
P1.11
P1.12
P1.13
P1.14
P1.15
P1.00
P0.12
P0.11
P1.09
P0.07
8 IMU sensors rotated 90 degrees to each other on all axes
Author: Arif Balik
Sheet: /
File: icm42670-imu-array.kicad_sch
Title: IMU Array MK I
Size: A3
Date: 2025-08-11
Rev: MK I
KiCad E.D.A. 9.0.1
Id: 1/1