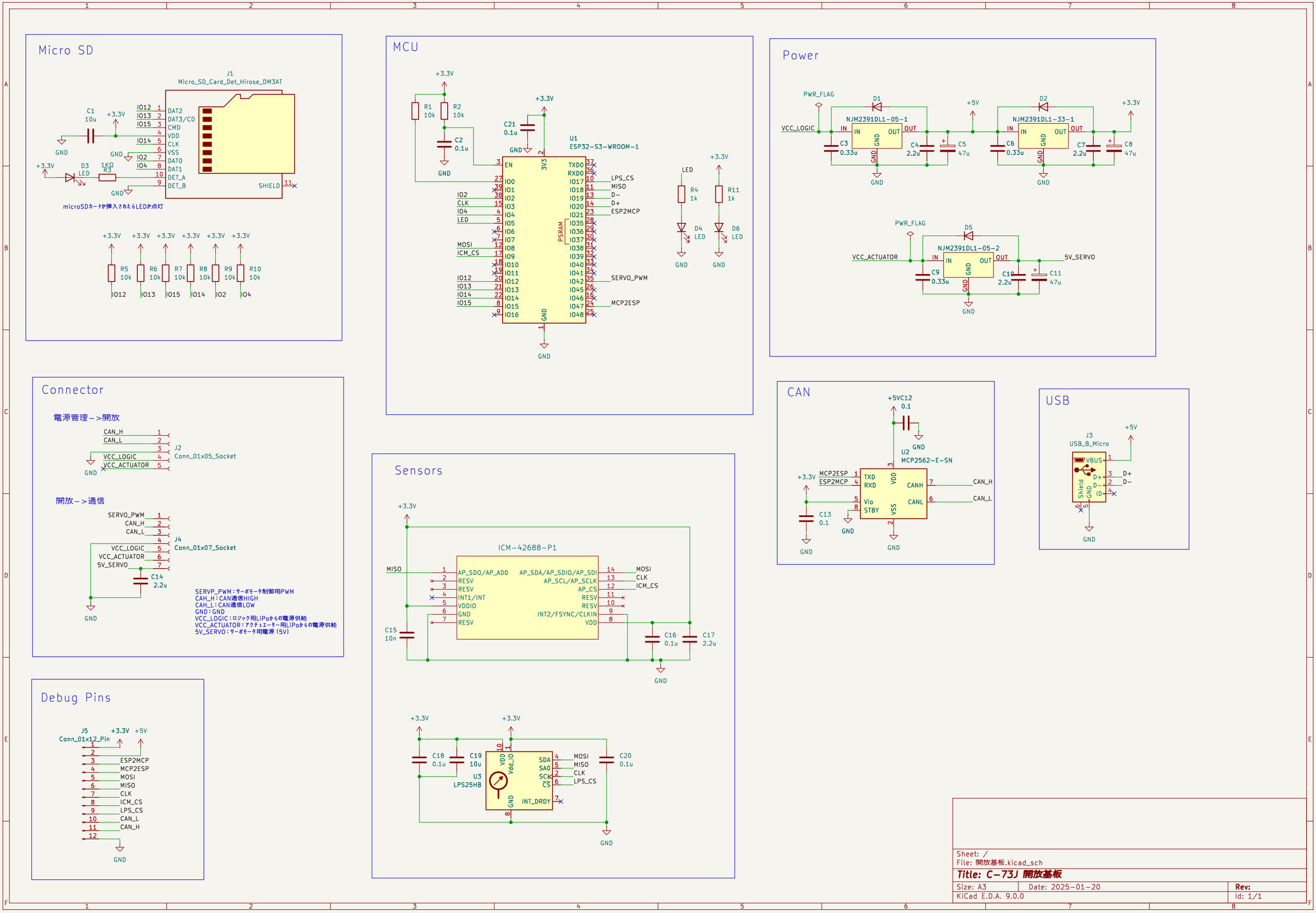
Micro SD
J1
Micro_SD_Card_Det_Hirose_DM3AT
DAT2
DAT3/CD
CMD
VDD
CLK
VSS
DAT0
DAT1
DET_A
DET_B
SHIELD
C1
10u
+3.3V
GND
D3
LED
1KΩ
R3
microSDカードが挿入されたらLEDが点灯
R5 10k
R6 10k
R7 10k
R8 10k
R9 10k
R10 10k
MCU
U1
ESP32-S3-WROOM-1
R1
10k
R2
10k
C2
0.1u
C21
0.1u
EN
3V3
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
IO16
TXD0
RXD0
IO17
IO18
IO19
IO20
IO21
IO35
IO36
IO37
IO38
IO39
IO40
IO41
IO42
IO45
IO46
IO47
IO48
PSRAM
LPS_CS
MISO
D−
D+
ESP2MCP
SERVO_PWM
MCP2ESP
CLK
LED
MOSI
ICM_CS
R4
1k
R11
1k
D4
LED
D6
LED
Power
PWR_FLAG
VCC_LOGIC
D1
NJM2391DL1-05-1
IN
OUT
GND
C3
0.33u
C4
2.2u
C5
47u
+5V
D2
NJM2391DL1-33-1
C6
0.33u
C7
2.2u
C8
47u
VCC_ACTUATOR
D5
NJM2391DL1-05-2
C9
0.33u
C10
2.2u
C11
47u
5V_SERVO
Connector
電源管理−>開放
CAN_H
CAN_L
VCC_LOGIC
VCC_ACTUATOR
J2
Conn_01x05_Socket
開放−>通信
SERVO_PWM
CAN_H
CAN_L
VCC_LOGIC
VCC_ACTUATOR
5V_SERVO
J4
Conn_01x07_Socket
C14
2.2u
SERVP_PWM：サーボモータ制御用PWM
CAH_H：CAN通信HIGH
CAH_L：CAN通信LOW
GND：GND
VCC_LOGIC：ロジック用LiPoからの電源供給
VCC_ACTUATOR：アクチュエーター用LiPoからの電源供給
5V_SERVO：サーボモータ用電源（5V）
Debug Pins
J5
Conn_01x12_Pin
+3.3V
+5V
ESP2MCP
MCP2ESP
MOSI
MISO
CLK
ICM_CS
LPS_CS
CAN_L
CAN_H
Sensors
ICM-42688-P1
AP_SDO/AP_AD0
RESV
INT1/INT
VDDIO
AP_SDA/AP_SDIO/AP_SDI
AP_SCL/AP_SCLK
AP_CS
INT2/FSYNC/CLKIN
VDD
C15
10n
C16
0.1u
C17
2.2u
C18
0.1u
C19
10u
U3
LPS25HB
VDD
Vdd_IO
SDA
SAO
SCL
CS
INT_DRDY
C20
0.1u
CAN
+5VC12
0.1
U2
MCP2562-E-SN
TXD
RXD
Vio
STBY
VDD
VSS
CANH
CANL
C13
0.1
USB
J3
USB_B_Micro
VBUS
D+
D−
ID
Shield
GND
Sheet: /
File: 開放基板.kicad_sch
Title: C−73J 開放基板
Size: A3
Date: 2025−01−20
KiCad E.D.A. 9.0.0
Rev:
Id: 1/1