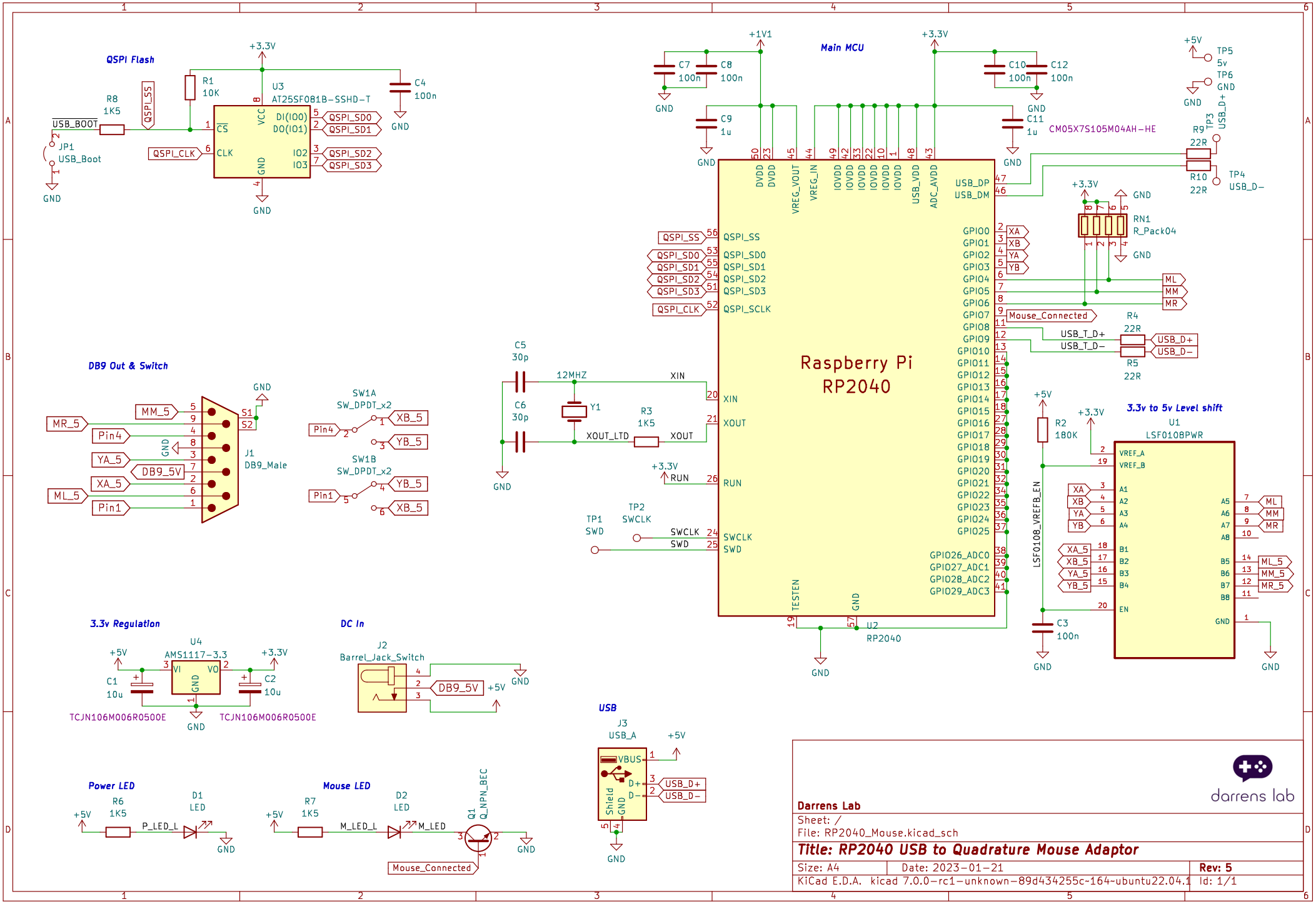
QSPI Flash
U3
AT25SF081B-SSHD-T
R1
10K
R8
1K5
USB_BOOT
JP1
USB_Boot
QSPI_SS
QSPI_CLK
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
C4
100n
+3.3V
GND
Main MCU
Raspberry Pi
RP2040
U2
RP2040
C7
100n
C8
100n
C9
1u
C10
100n
C12
100n
C11
1u
+1V1
CM05X7S105M04AH-HE
TP5
5v
TP6
GND
TP3
USB_D+
TP4
USB_D-
R9
22R
R10
22R
RN1
R_Pack04
ML
MM
MR
Mouse_Connected
R4
22R
R5
22R
USB_T_D+
USB_T_D-
USB_D+
USB_D-
C5
30p
C6
30p
12MHZ
Y1
R3
1K5
XIN
XOUT
XOUT_LTD
RUN
TP1
SWD
TP2
SWCLK
DB9 Out & Switch
J1
DB9_Male
MM_5
MR_5
Pin4
YA_5
DB9_5V
XA_5
ML_5
Pin1
SW1A
SW_DPDT_x2
XB_5
YB_5
SW1B
3.3v to 5v Level shift
U1
LSF0108PWR
R2
180K
C3
100n
LSF0108_VREFB_EN
XA
XB
YA
YB
XA_5
XB_5
YA_5
YB_5
ML_5
MM_5
MR_5
3.3v Regulation
U4
AMS1117-3.3
C1
10u
C2
10u
TCJN106M006R0500E
DC In
J2
Barrel_Jack_Switch
DB9_5V
USB
J3
USB_A
VBUS
D+
D-
Shield
Power LED
R6
1K5
D1
LED
P_LED_L
Mouse LED
R7
1K5
D2
LED
M_LED_L
M_LED
Q1
Q_NPN_BEC
Mouse_Connected
Darrens Lab
Sheet: /
File: RP2040_Mouse.kicad_sch
Title: RP2040 USB to Quadrature Mouse Adaptor
Size: A4
Date: 2023-01-21
Rev: 5
KiCad E.D.A. kicad 7.0.0-rc1-unknown-89d434255c-164~ubuntu22.04.1
Id: 1/1