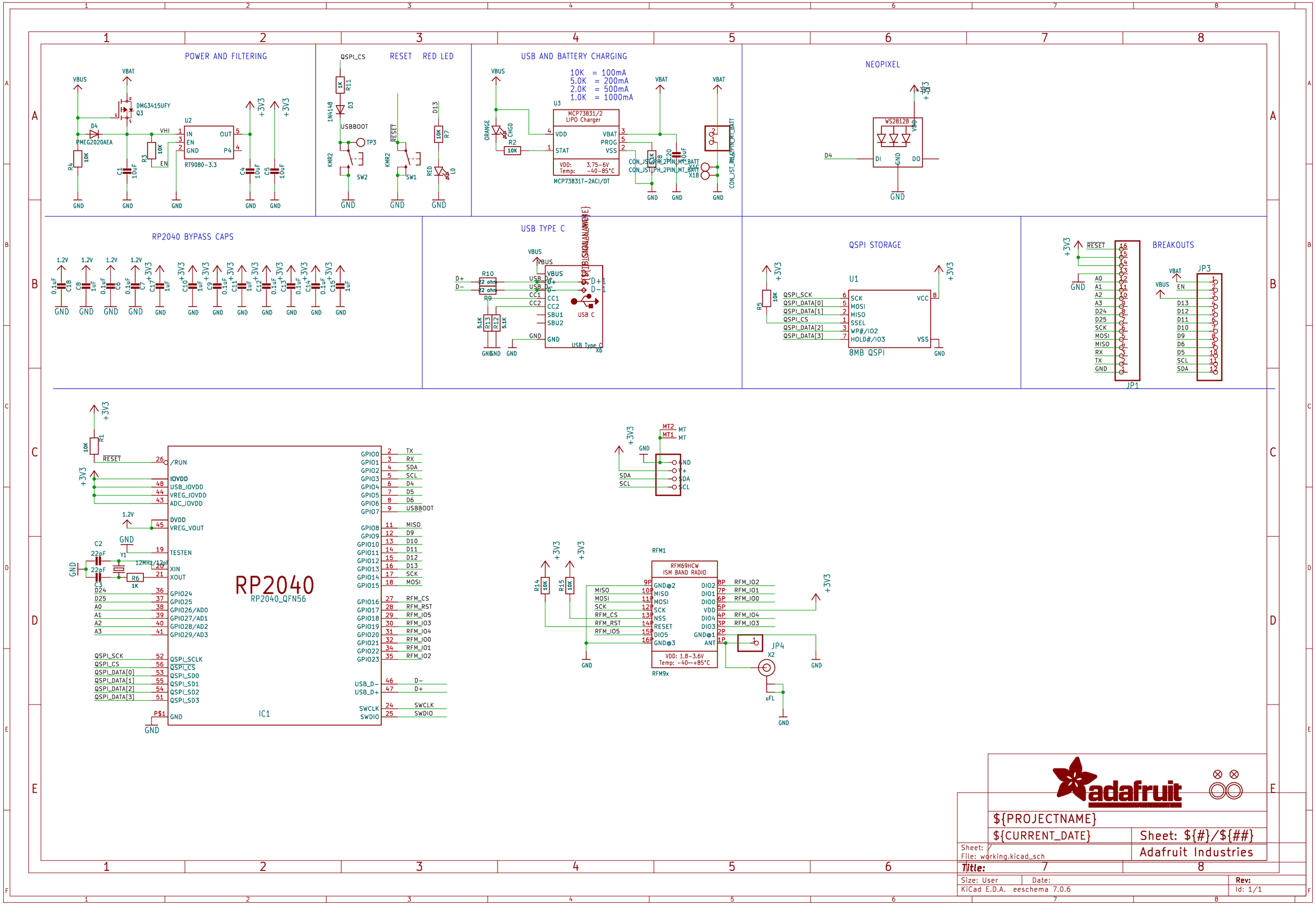
POWER AND FILTERING
VBUS
VBAT
DMG3415UFY
Q3
D4
PMEG2020AEA
R4 10K
R3 10K
EN
VHI
U2
IN
EN
GND
OUT
P4
RT9080-3.3
C1 10uF
C4 10uF
C5 10uF
+3V3
GND
QSPI_CS
RESET
RED LED
R11 1K
1N4148
D3
USBBOOT
TP3
KMR2
SW2
SW1
D13
R7 10K
RED
L0
USB AND BATTERY CHARGING
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
U3
MCP73831/2
LIPO Charger
VDD
STAT
VBAT
PROG
VSS
VDD: 3.75-6V
Temp: -40-85°C
MCP73831T-2ACI/OT
ORANGE
CHGO
R2 10K
R5 5.6K
C8 10uF
CON_JST_PH_2PIN_MT_BATT
X1B
NEOPIXEL
WS2812B
VDD
DI
GND
DO
D4
RP2040 BYPASS CAPS
1.2V
C18 0.1uF
C8 1uF
C6 0.1uF
C7 1uF
C10 1uF
C9 0.1uF
C11 1uF
C12 0.1uF
C13 0.1uF
C14 0.1uF
C15 1uF
USB TYPE C
R10 22 ohm
R9 22 ohm
R13 5.1K
R12 5.1K
VBUS
USB_D+
USB_D-
CC1
CC2
SBU1
SBU2
GND
USB C
USB_Type_C
X6
QSPI STORAGE
U1
R5 10K
QSPI_SCK
QSPI_DATA[0]
QSPI_DATA[1]
QSPI_CS
QSPI_DATA[2]
QSPI_DATA[3]
SCK
MOSI
MISO
SSEL
WP#/IO2
HOLD#/IO3
VCC
VSS
8MB QSPI
BREAKOUTS
RESET
A0
A1
A2
A3
D24
D25
SCK
MOSI
MISO
RX
TX
GND
JP1
JP3
VBAT
VBUS
EN
D13
D12
D11
D10
D9
D6
D5
SCL
SDA
R1 10K
/RUN
IOVDD
USB_IOVDD
VREG_IOVDD
ADC_IOVDD
DVDD
VREG_VOUT
TESTEN
XIN
XOUT
C2 22pF
C3 22pF
Y1 12MHz
R6 1K
GPIO24
GPIO25
GPIO26/AD0
GPIO27/AD1
GPIO28/AD2
GPIO29/AD3
QSPI_SCLK
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
P$1
IC1
RP2040
RP2040_QFN56
GPIO0 TX
GPIO1 RX
GPIO2 SDA
GPIO3 SCL
GPIO4 D4
GPIO5 D5
GPIO6 D6
GPIO7 USBBOOT
GPIO8 MISO
GPIO9 D9
GPIO10 D10
GPIO11 D11
GPIO12 D12
GPIO13 D13
GPIO14 SCK
GPIO15 MOSI
GPIO16 RFM_CS
GPIO17 RFM_RST
GPIO18 RFM_IO5
GPIO19 RFM_IO3
GPIO20 RFM_IO4
GPIO21 RFM_IO0
GPIO22 RFM_IO1
GPIO23 RFM_IO2
USB_D- D-
USB_D+ D+
SWCLK
SWDIO
MT2
MT1
MT
SDA
SCL
RFM1
RFM69HCW
ISM BAND RADIO
GND@2
MISO
MOSI
SCK
NSS
RESET
DIO5
GND@3
DIO2
DIO1
DIO0
VDD
DIO4
DIO3
GND@1
ANT
RFM_IO2
RFM_IO1
RFM_IO0
RFM_IO4
RFM_IO3
VDD: 1.8-3.6V
Temp: -40--+85°C
RFM9x
R14 10K
R15 10K
JP4
X2
uFL
adafruit
${PROJECTNAME}
${CURRENT_DATE}
Sheet: ${#}/${##}
Sheet: /
File: working.kicad_sch
Adafruit Industries
Title:
Size: User
Date:
Rev:
KiCad E.D.A. eeschema 7.0.6
Id: 1/1