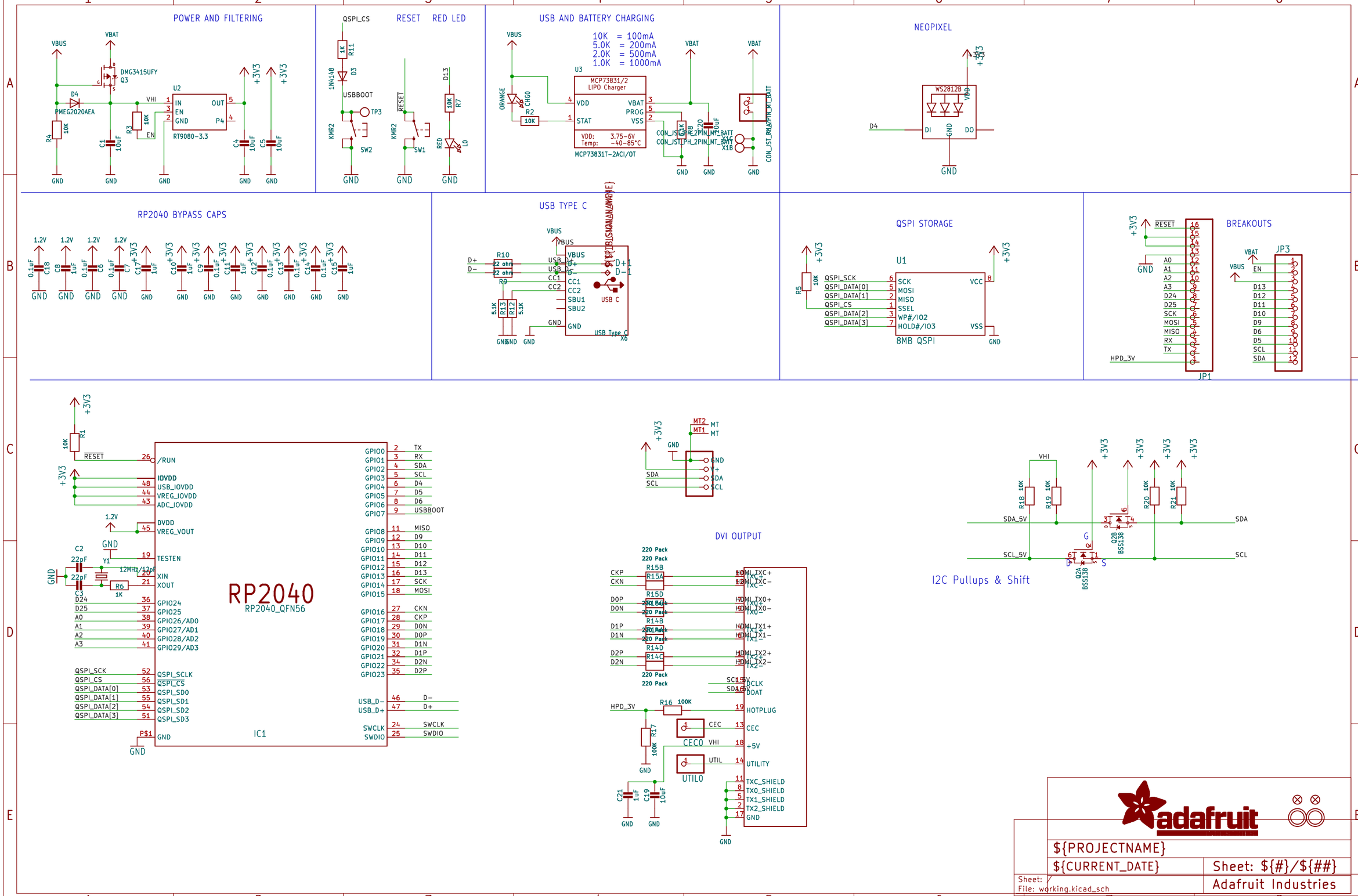
POWER AND FILTERING
VBUS
VBAT
DMG3415UFY
Q3
D4
PMEG2020AEA
VHI
U2
IN
EN
GND
OUT
P4
RT9080-3.3
R4 10K
R3 10K
EN
C1 10uF
C4 10uF
C5 10uF
+3V3
GND
QSPI_CS
RESET
RED LED
R11 1K
1N4148
D3
USBBOOT
TP3
KMR2
SW2
SW1
D13
R7 10K
RED
L0
USB AND BATTERY CHARGING
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
U3
MCP73831/2
LIPO Charger
VDD
STAT
VBAT
PROG
VSS
VDD: 3.75-6V
Temp: -40-85°C
MCP73831T-2ACI/OT
ORANGE
CHG0
R2 10K
R8 5.1K
C20 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 0.1uF
C17 1uF
C10 1uF
C9 0.1uF
C11 1uF
C12 0.1uF
C13 0.1uF
C14 0.1uF
C15 1uF
USB TYPE C
VBUS
D+
D-
R10 22 ohm
R9 22 ohm
CC1
CC2
SBU1
SBU2
GND
R13 5.1K
R12 5.1K
USB C
USB_Type_C
X6
QSPI STORAGE
U1
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
R5 10K
BREAKOUTS
JP1
JP3
A0
A1
A2
A3
D24
D25
SCK
MOSI
MISO
RX
TX
HPD_3V
EN
D13
D12
D11
D10
D9
D6
D5
SCL
SDA
/RUN
IOVDD
USB_IOVDD
VREG_IOVDD
ADC_IOVDD
DVDD
VREG_VOUT
TESTEN
XIN
XOUT
GPIO24
GPIO25
GPIO26/AD0
GPIO27/AD1
GPIO28/AD2
GPIO29/AD3
QSPI_SCLK
QSPI_CS
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
GND
IC1
RP2040
RP2040_QFN56
R1 10K
C2 22pF
C3 22pF
Y1 12MHz
R6 1K
GPIO00
GPIO01
GPIO02
GPIO03
GPIO04
GPIO05
GPIO06
GPIO07
GPIO08
GPIO09
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
GPIO23
USB_D-
USB_D+
SWCLK
SWDIO
TX
RX
SCL
D4
D5
D6
USBBOOT
MISO
D9
D10
D11
D12
D13
SCK
MOSI
CKN
CKP
D0N
D0P
D1N
D1P
D2N
D2P
MT
SDA
SCL
DVI OUTPUT
220 Pack
R15B
R15A
R15D
R14B
R14A
R14D
R14C
HDMI_TXC+
HDMI_TXC-
HDMI_TX0+
HDMI_TX0-
HDMI_TX1+
HDMI_TX1-
HDMI_TX2+
HDMI_TX2-
DCLK
DDAT
HOTPLUG
CEC
+5V
UTILITY
TXC_SHIELD
TX0_SHIELD
TX1_SHIELD
TX2_SHIELD
HPD_3V
R16 100K
R17 100K
CEC0
UTIL0
C21 1uF
C19 100uF
I2C Pullups & Shift
R18 10K
R19 10K
R20 10K
R21 10K
SDA_5V
SCL_5V
Q2A BSS138
Q2B BSS138
adafruit
${PROJECTNAME}
${CURRENT_DATE}
Sheet: ${#}/${##}
Adafruit Industries
Sheet: /
File: working.kicad_sch
Title:
Size: User
Date:
Rev:
KiCad E.D.A. eeschema 7.0.6
Id: 1/1