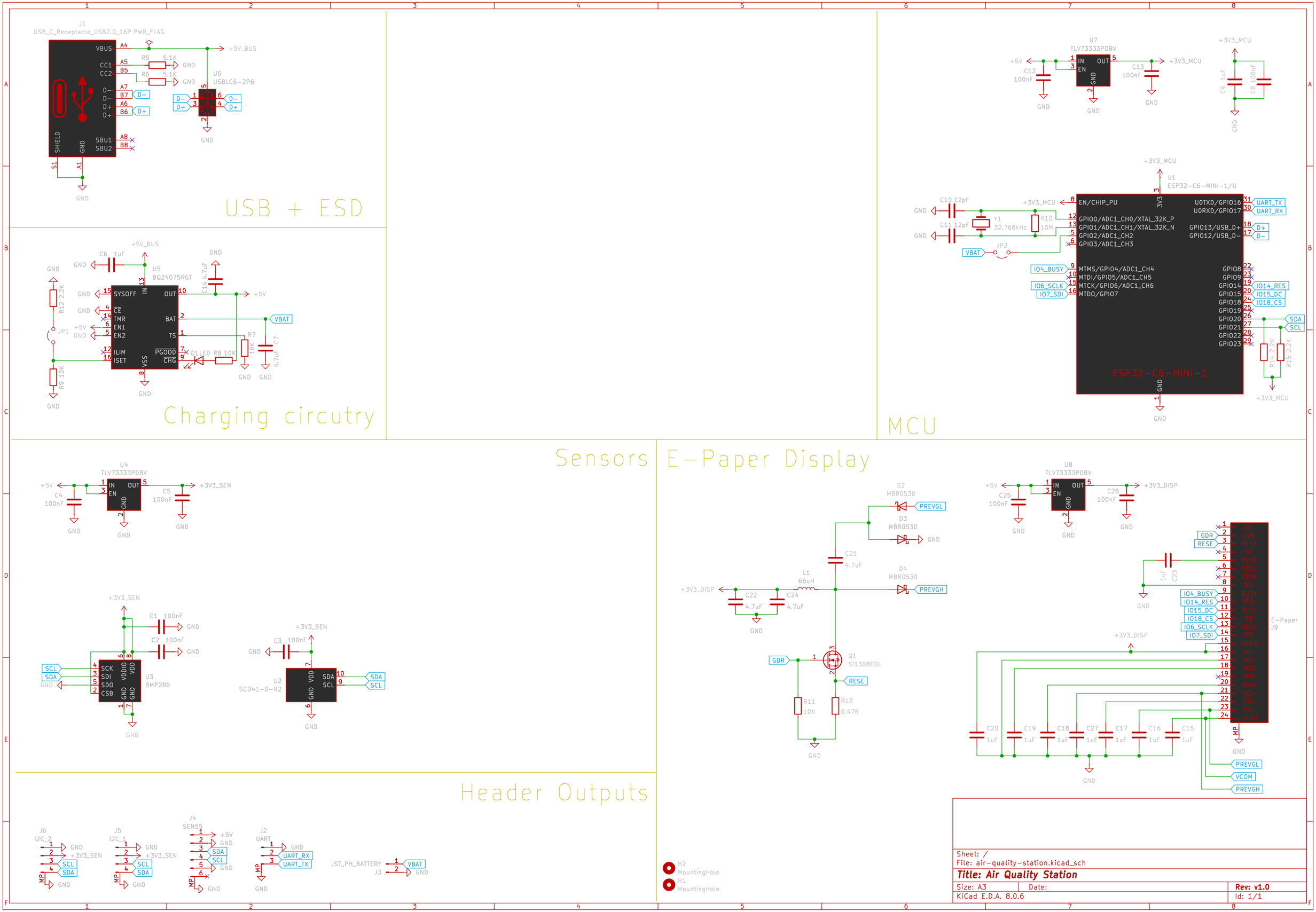
USB + ESD
J1
USB_C_Receptacle_USB2.0_16P PWR_FLAG
VBUS
CC1
CC2
D-
D-
D+
D+
SHIELD
GND
SBU1
SBU2
R5 5.1K
R6 5.1K
U6
USBLC6-2P6
+5V_BUS
Charging circutry
U5
BQ24075RGT
SYSOFF
TMR
EN1
EN2
ILIM
ISET
IN
OUT
BAT
TS
PGOOD
CHG
VSS
CE
C6 1uF
C14 4.7uF
R12 2.2K
R9 10K
JP1
D1LED
R8 10K
R7 10K
C7 4.7uF
VBAT
MCU
U7
TLV73333PDBV
C12 100nF
C13 100nF
+3V3_MCU
C9 1uF
C8 100nF
U1
ESP32-C6-MINI-1/U
EN/CHIP_PU
GPIO0/ADC1_CH0/XTAL_32K_P
GPIO1/ADC1_CH1/XTAL_32K_N
GPIO2/ADC1_CH2
GPIO3/ADC1_CH3
MTMS/GPIO4/ADC1_CH4
MTDI/GPIO5/ADC1_CH5
MTCK/GPIO6/ADC1_CH6
MTDO/GPIO7
U0TXD/GPIO16
U0RXD/GPIO17
GPIO13/USB_D+
GPIO12/USB_D-
GPIO8
GPIO9
GPIO14
GPIO15
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
GPIO23
ESP32-C6-MINI-1
C10 12pF
C11 12pF
Y1
32.768kHz
R10 10M
JP2
UART_TX
UART_RX
D+
D-
IO4_BUSY
IO6_SCLK
IO7_SDI
IO14_RES
IO15_DC
IO18_CS
SDA
SCL
R14 2.2K
R15 2.2K
Sensors
U4
TLV73333PDBV
C4 100nF
C5 100nF
+3V3_SEN
C1 100nF
C2 100nF
U3
BMP280
SCK
SDI
SDO
CSB
VDDIO
VDD
C3 100nF
U2
SCD41-D-R2
E-Paper Display
D2
MBR0530
D3
MBR0530
D4
MBR0530
PREVGL
PREVGH
C21 4.7uF
L1 68uH
C22 4.7uF
C24 4.7uF
+3V3_DISP
Q1
Si1308EDL
GDR
RESE
R11 10K
R13 0.47R
U8
TLV73333PDBV
C25 100nF
C26 100nF
C23 1uF
E-Paper
J9
NC
GDR
RESE
VSH2
TSCL
TSDA
BS
BUSY
RES
D/C
CS
SCLK
SDI
VDDIO
VCI
VSS
VDD
VPP
VSH1
VGH
VSL
VGL
VCOM
C20 1uF
C19 1uF
C18 1uF
C27 1uF
C17 1uF
C16 1uF
C15 1uF
Header Outputs
J6
I2C_2
J5
I2C_1
J4
SEN55
J2
UART
UART_RX
UART_TX
JST_PH_BATTERY
J3
H2
MountingHole
H1
MountingHole
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File: air-quality-station.kicad_sch
Title: Air Quality Station
Size: A3
Date:
Rev: v1.0
KiCad E.D.A. 8.0.6
Id: 1/1