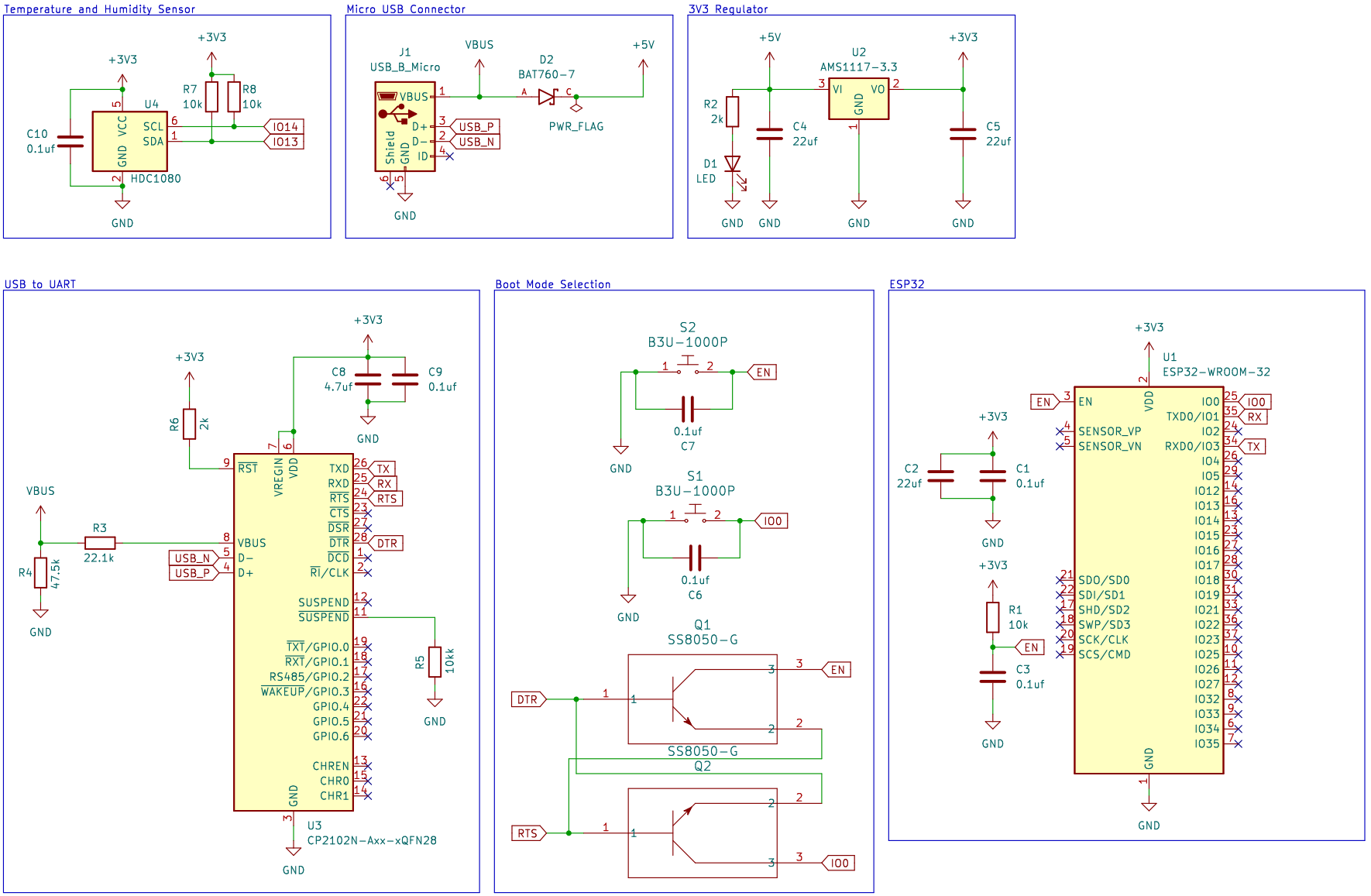
Temperature and Humidity Sensor
+3V3
+3V3
R7
10k
R8
10k
C10
0.1uf
U4
VCC
GND
SCL
SDA
HDC1080
IO14
IO13
GND
Micro USB Connector
J1
USB_B_Micro
VBUS
D2
BAT760-7
+5V
VBUS
D+
D-
ID
Shield
GND
USB_P
USB_N
PWR_FLAG
GND
3V3 Regulator
+5V
U2
AMS1117-3.3
+3V3
R2
2k
C4
22uf
VI
VO
GND
C5
22uf
D1
LED
GND
GND
GND
GND
USB to UART
+3V3
+3V3
C8
4.7uf
C9
0.1uf
GND
R6
2k
VBUS
R3
22.1k
R4
47.5k
GND
USB_N
USB_P
RST
VREGIN
VDD
VBUS
D-
D+
TXD
RXD
RTS
CTS
DSR
DTR
DCD
RI/CLK
SUSPEND
SUSPEND
TXT/GPIO.0
RXT/GPIO.1
RS485/GPIO.2
WAKEUP/GPIO.3
GPIO.4
GPIO.5
GPIO.6
CHREN
CHR0
CHR1
GND
TX
RX
RTS
DTR
R5
10kk
GND
U3
CP2102N-Axx-xQFN28
GND
Boot Mode Selection
S2
B3U-1000P
EN
0.1uf
C7
GND
S1
B3U-1000P
IO0
0.1uf
C6
GND
Q1
SS8050-G
DTR
EN
SS8050-G
Q2
RTS
IO0
ESP32
+3V3
U1
ESP32-WROOM-32
EN
VDD
SENSOR_VP
SENSOR_VN
IO0
TXD0/IO1
IO2
RXD0/IO3
IO4
IO5
IO12
IO13
IO14
IO15
IO16
IO17
IO18
IO19
IO21
IO22
IO23
IO25
IO26
IO27
IO32
IO33
IO34
IO35
SDO/SD0
SDI/SD1
SHD/SD2
SWP/SD3
SCK/CLK
SCS/CMD
GND
+3V3
C2
22uf
C1
0.1uf
GND
+3V3
R1
10k
EN
C3
0.1uf
GND
GND