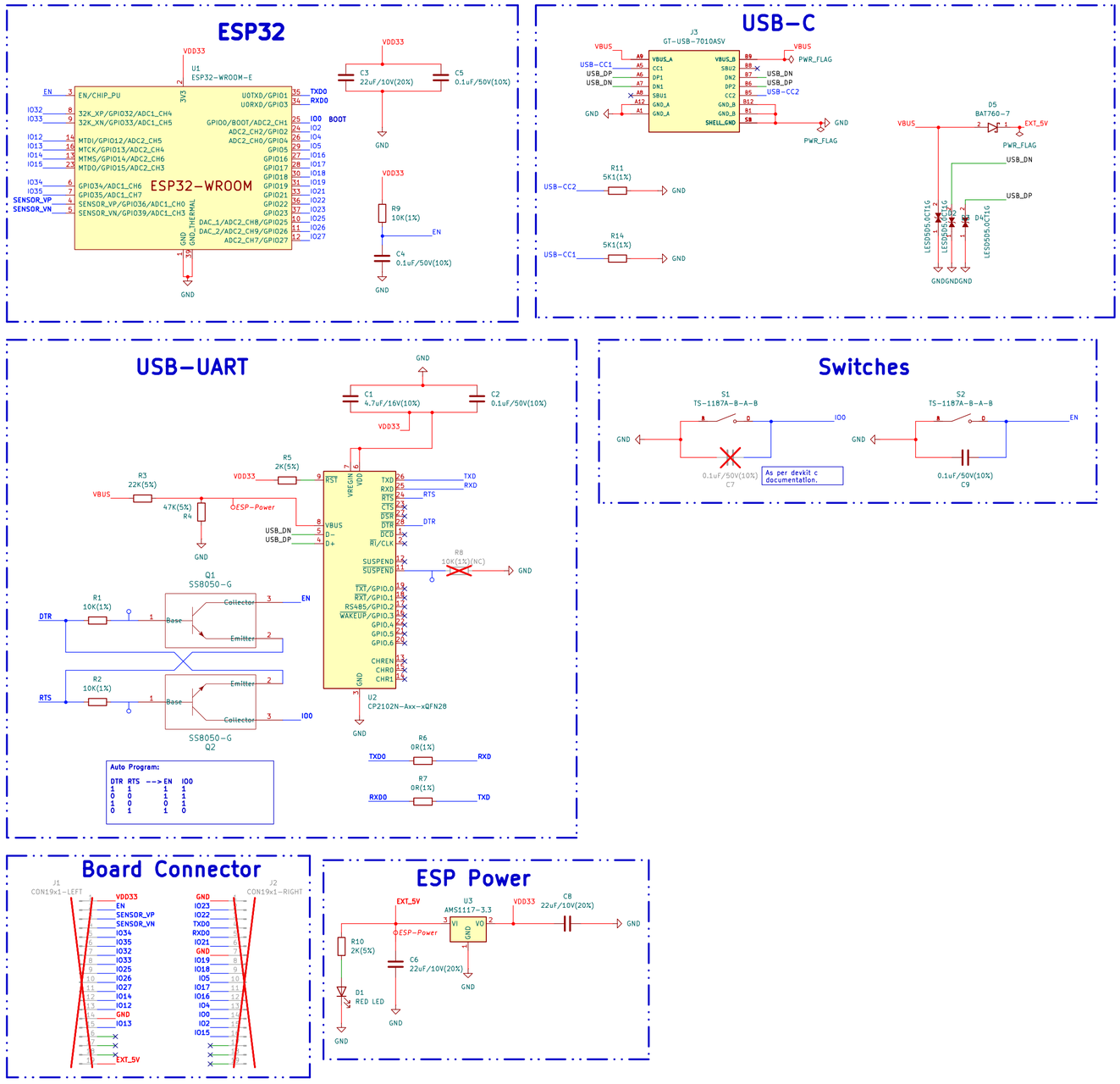
ESP32
U1
ESP32-WROOM-E
ESP32-WROOM
EN/CHIP_PU
32K_XP/GPIO32/ADC1_CH4
32K_XN/GPIO33/ADC1_CH5
MTDI/GPIO12/ADC2_CH5
MTCK/GPIO13/ADC2_CH4
MTMS/GPIO14/ADC2_CH6
MTDO/GPIO15/ADC2_CH3
GPIO34/ADC1_CH6
GPIO35/ADC1_CH7
SENSOR_VP/GPIO36/ADC1_CH0
SENSOR_VN/GPIO39/ADC1_CH3
U0TXD/GPIO1
U0RXD/GPIO3
GPIO0/BOOT/ADC2_CH1
ADC2_CH2/GPIO2
ADC2_CH0/GPIO4
GPIO5
GPIO16
GPIO17
GPIO18
GPIO19
GPIO21
GPIO22
GPIO23
DAC_1/ADC2_CH8/GPIO25
DAC_2/ADC2_CH9/GPIO26
ADC2_CH7/GPIO27
GND_THERMAL
VDD33
C3
22uF/10V(20%)
C5
0.1uF/50V(10%)
R9
10K(1%)
C4
0.1uF/50V(10%)
GND
USB-C
J3
GT-USB-7010ASV
VBUS
USB-CC1
USB_DP
USB_DN
USB-CC2
PWR_FLAG
R11
5K1(1%)
R14
5K1(1%)
D5
BAT760-7
EXT_5V
D4
LESD5D5.0CT1G
USB-UART
C1
4.7uF/16V(10%)
C2
0.1uF/50V(10%)
R3
22K(5%)
47K(5%)
R4
R5
2K(5%)
ESP-Power
CP2102N-Axx-xQFN28
U2
TXD
RXD
RTS
DTR
R8
10K(1%)(NC)
Q1
SSB050-G
Q2
R1
10K(1%)
R2
10K(1%)
Collector
Base
Emitter
EN
IO0
R6
0R(1%)
R7
0R(1%)
Auto Program:
DTR RTS --> EN IO0
1 1 1 1
0 0 1 1
1 0 0 1
0 1 1 0
Switches
S1
TS-1187A-B-A-B
S2
TS-1187A-B-A-B
0.1uF/50V(10%)
C7
C9
As per devkit c documentation.
Board Connector
J1
CON19x1-LEFT
J2
CON19x1-RIGHT
VDD33
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
GND
IO13
EXT_5V
GND
IO23
IO22
TXD0
RXD0
IO21
IO19
IO18
IO5
IO17
IO16
IO4
IO0
IO2
IO15
ESP Power
U3
AMS1117-3.3
VI
VO
C8
22uF/10V(20%)
R10
2K(5%)
C6
22uF/10V(20%)
D1
RED LED