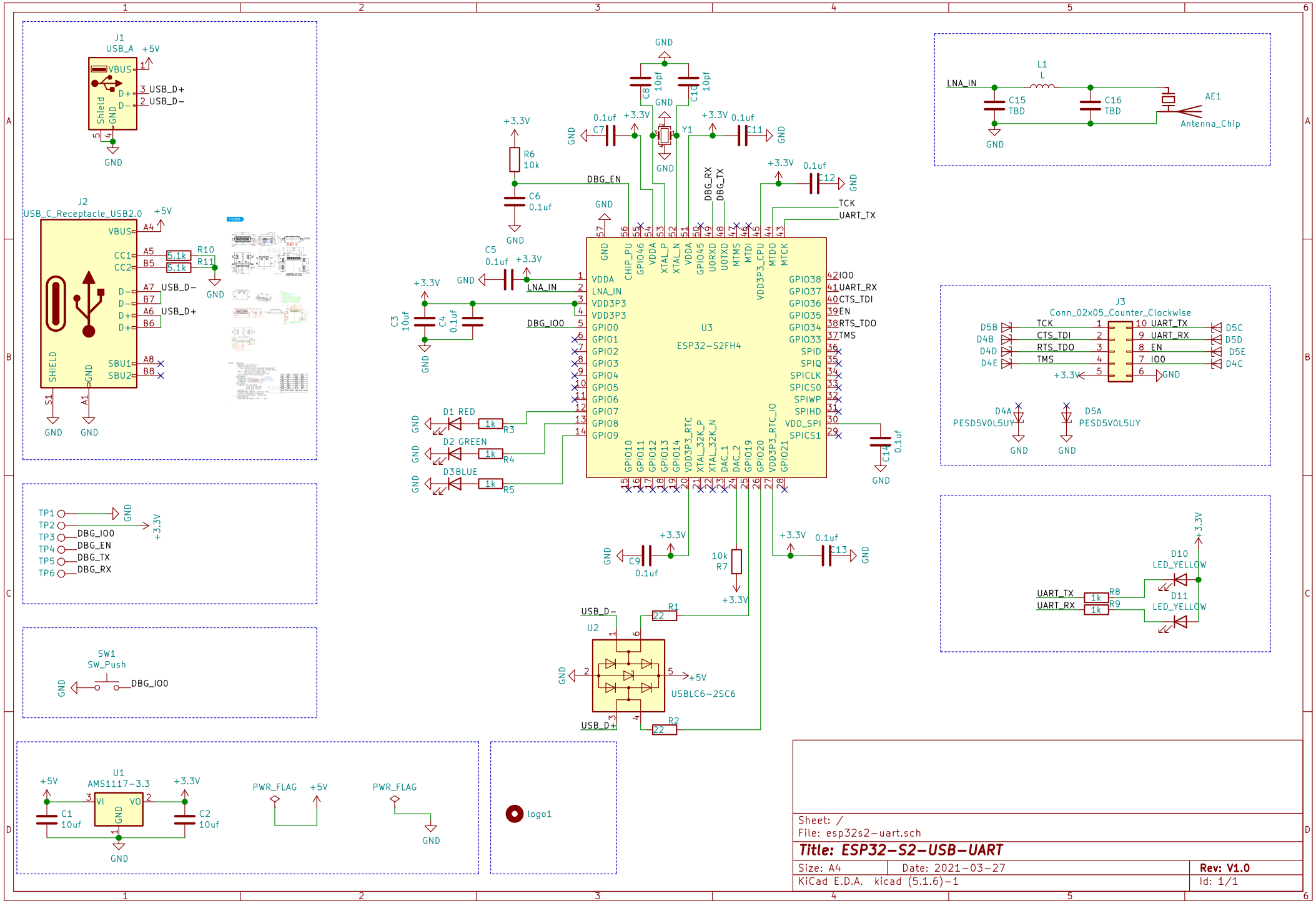
J1
USB_A
+5V
VBUS
D+
D−
GND
Shield
USB_D+
USB_D−
J2
USB_C_Receptacle_USB2.0
VBUS
CC1
CC2
D−
D+
SHIELD
SBU1
SBU2
5.1k
R10
R11
S1
A1
U3
ESP32−S2FH4
VDDA
LNA_IN
VDD3P3
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
CHIP_PU
GPIO46
XTAL_P
XTAL_N
GPIO45
U0RXD
U0TXD
MTMS
MTDI
VDD3P3_CPU
MTDO
MTCK
GPIO38
GPIO37
GPIO36
GPIO35
GPIO34
GPIO33
SPID
SPIQ
SPICLK
SPICS0
SPIWP
SPIHD
VDD_SPI
SPICS1
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
VDD3P3_RTC
XTAL_32K_P
XTAL_32K_N
DAC_1
DAC_2
GPIO19
GPIO20
VDD3P3_RTC_IO
GPIO21
DBG_EN
DBG_RX
DBG_TX
TCK
UART_TX
DBG_IO0
IO0
UART_RX
CTS_TDI
EN
RTS_TDO
TMS
C8 10pf
C10 10pf
Y1
C7 0.1uf
C11 0.1uf
C12 0.1uf
C13 0.1uf
C14 0.1uf
C9 0.1uf
C5 0.1uf
C6 0.1uf
R6 10k
C3 10uf
C4 0.1uf
D1 RED
D2 GREEN
D3BLUE
R3 1k
R4 1k
R5 1k
R7 10k
R1 22
R2 22
U2
USBLC6−2SC6
USB_D−
USB_D+
L1
L
C15 TBD
C16 TBD
AE1
Antenna_Chip
J3
Conn_02x05_Counter_Clockwise
D5B
D4B
D4D
D4E
D5C
D5D
D5E
D4C
D4A
PESD5V0L5UY
D5A
PESD5V0L5UY
D10
LED_YELLOW
D11
LED_YELLOW
R8 1k
R9 1k
TP1
TP2
TP3
TP4
TP5
TP6
SW1
SW_Push
U1
AMS1117−3.3
VI
VO
C1 10uf
C2 10uf
PWR_FLAG
logo1
Sheet: /
File: esp32s2−uart.sch
Title: ESP32−S2−USB−UART
Size: A4
Date: 2021−03−27
Rev: V1.0
KiCad E.D.A. kicad (5.1.6)−1
Id: 1/1