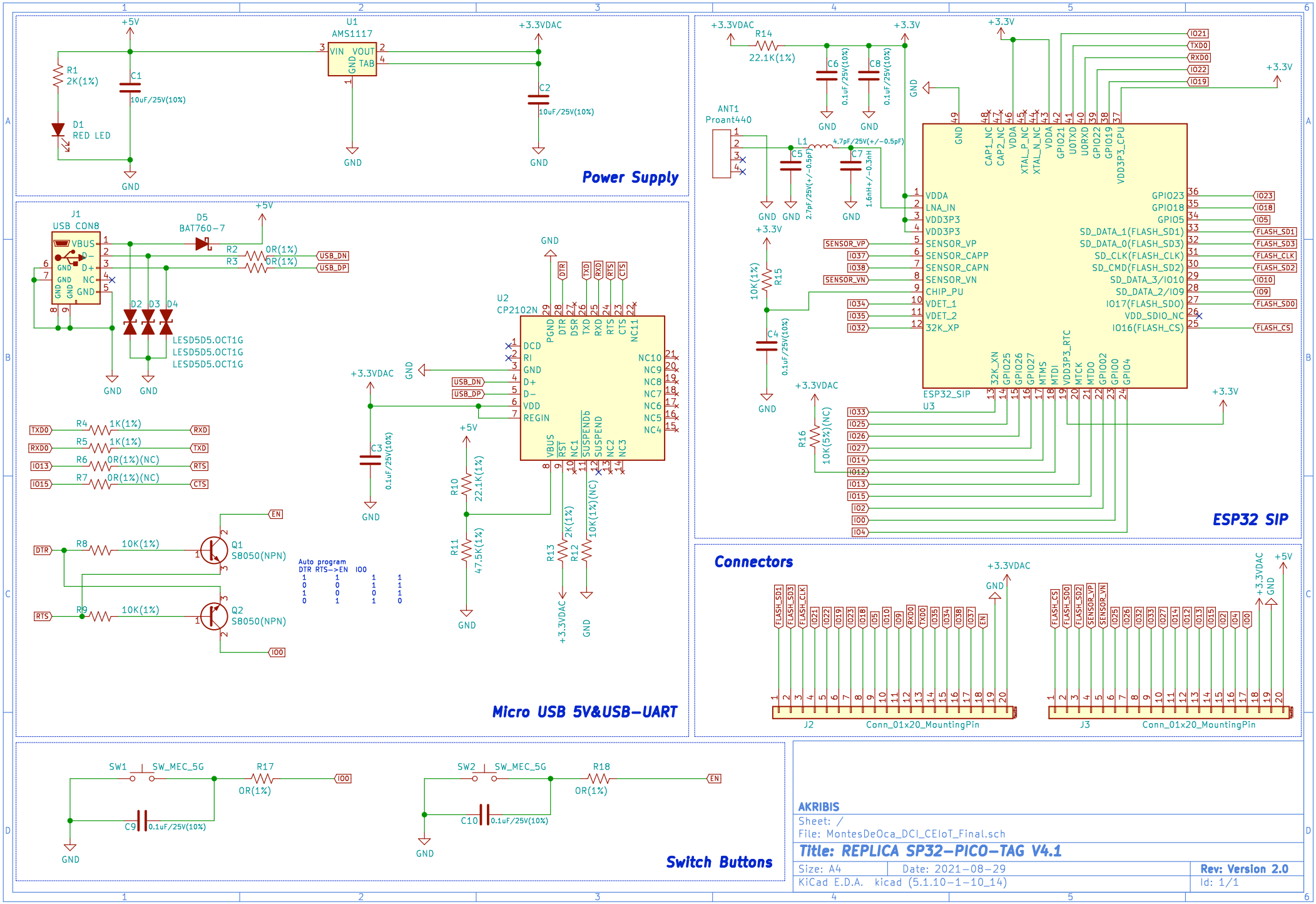
Power Supply
U1
AMS1117
VIN VOUT
GND TAB
+5V
+3.3VDAC
R1
2K(1%)
C1
10uF/25V(10%)
D1
RED LED
C2
10uF/25V(10%)
GND
Micro USB 5V&USB-UART
J1
USB CON8
D5
BAT760-7
R2 0R(1%)
R3 0R(1%)
USB_DN
USB_DP
D2 D3 D4
LESD5D5.0CT1G
U2
CP2102N
DCD
RI
GND
D+
D-
VDD
REGIN
VBUS
RST
NC1
SUSPENDb
SUSPEND
NC2
NC3
PGND
DTR
DSR
TXD
RXD
RTS
CTS
NC11
NC10
NC9
NC8
NC7
NC6
NC5
NC4
C3
0.1uF/25V(10%)
R4 1K(1%) TXD RXD
R5 1K(1%) RXD TXD
R6 0R(1%)(NC) IO13 RTS
R7 0R(1%)(NC) IO15 CTS
R8 10K(1%) DTR
R9 10K(1%) RTS
Q1
S8050(NPN)
Q2
S8050(NPN)
EN
IO0
Auto program
DTR RTS->EN IO0
1 1 1 1
0 0 1 1
1 0 0 1
0 1 1 0
R10 22.1K(1%)
R11 47.5K(1%)
R12 10K(1%)(NC)
R13 2K(1%)
ESP32 SIP
R14 22.1K(1%)
C6 0.1uF/25V(10%)
C8 0.1uF/25V(10%)
ANT1
Proant440
L1 4.7pF/25V(+/-0.5pF)
C5 2.7pF/25V(+/-0.5pF)
C7 1.6nH+/-0.3nH
R15 10K(1%)
C4 0.1uF/25V(10%)
R16 10K(5%)(NC)
U3
ESP32_SIP
VDDA
LNA_IN
VDD3P3
VDD3P3
SENSOR_VP
SENSOR_CAPP
SENSOR_CAPN
SENSOR_VN
CHIP_PU
VDET_1
VDET_2
32K_XP
32K_XN
GPIO25
GPIO26
GPIO27
MTMS
MTDI
VDD3P3_RTC
MTCK
MTDO
GPIO02
GPIO0
GPIO4
CAP1_NC
CAP2_NC
VDDA
XTAL_P_NC
XTAL_N_NC
VDDA
GPIO21
U0TXD
U0RXD
GPIO22
GPIO19
VDD3P3_CPU
GPIO23
GPIO18
GPIO5
SD_DATA_1(FLASH_SD1)
SD_DATA_0(FLASH_SD3)
SD_CLK(FLASH_CLK)
SD_CMD(FLASH_SD2)
SD_DATA_3/IO10
SD_DATA_2/IO9
IO17(FLASH_SD0)
VDD_SDIO_NC
IO16(FLASH_CS)
FLASH_SD1
FLASH_SD3
FLASH_CLK
FLASH_SD2
FLASH_SD0
FLASH_CS
Connectors
J2
Conn_01x20_MountingPin
J3
Conn_01x20_MountingPin
Switch Buttons
SW1 SW_MEC_5G
R17 0R(1%)
C9 0.1uF/25V(10%)
SW2 SW_MEC_5G
R18 0R(1%)
C10 0.1uF/25V(10%)
AKRIBIS
Sheet: /
File: MontesDeOca_DCI_CEIoT_Final.sch
Title: REPLICA SP32-PICO-TAG V4.1
Size: A4
Date: 2021-08-29
Rev: Version 2.0
KiCad E.D.A. kicad (5.1.10-1-10_14)
Id: 1/1