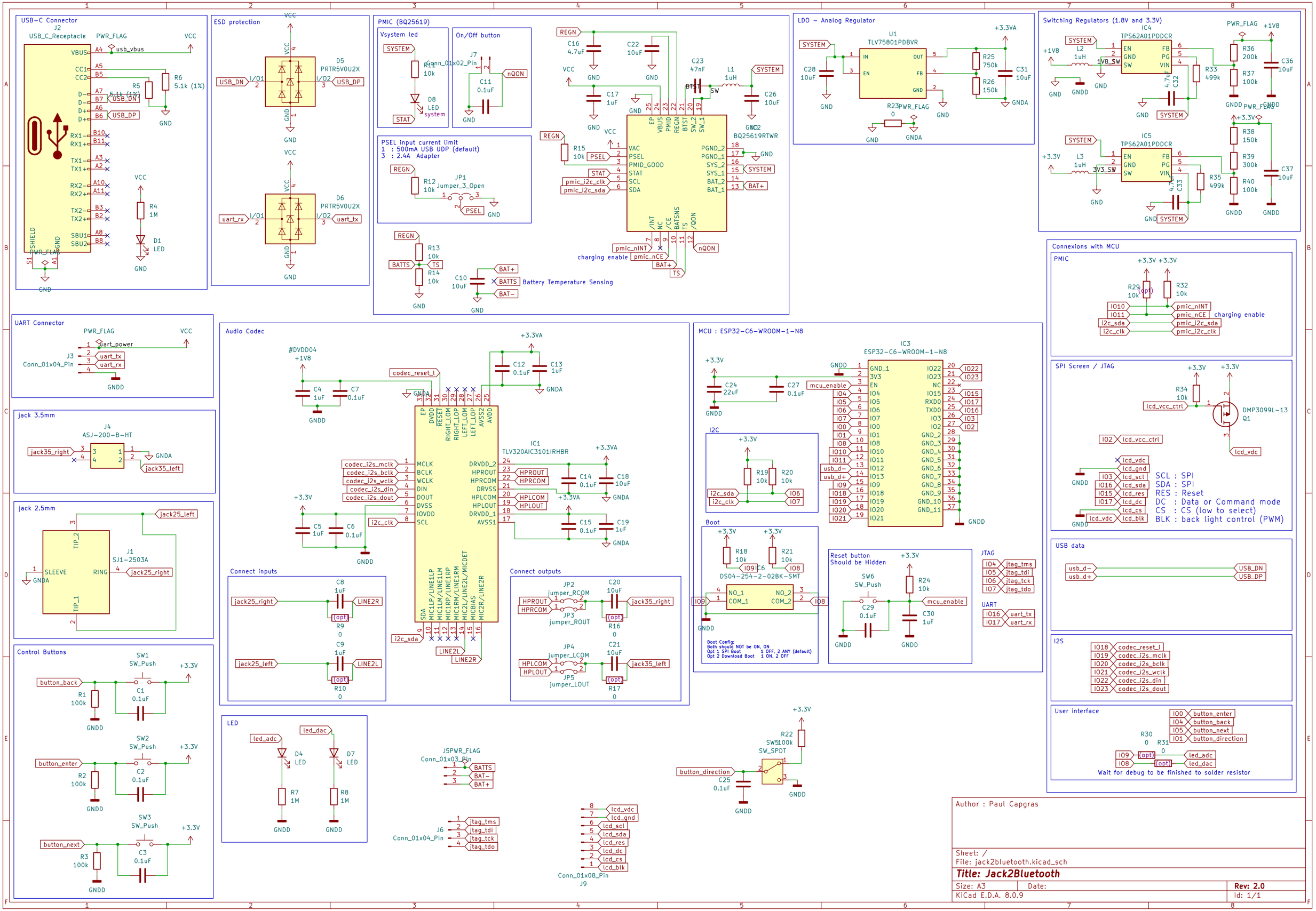
USB-C Connector
J2
USB_C_Receptacle
PWR_FLAG
VCC
usb_vbus
VBUS
CC1
CC2
D-
D+
RX1-
RX1+
TX1-
TX1+
RX2-
RX2+
TX2-
TX2+
SBU1
SBU2
SHIELD
GND
R5
5.1k (1%)
R6
5.1k (1%)
R4
1M
D1
LED
ESD protection
D5
PRTR5V0U2X
D6
PRTR5V0U2X
USB_DN
USB_DP
uart_rx
uart_tx
I/O1
I/O2
PMIC (BQ25619)
Vsystem led
SYSTEM
R11
10k
D8
LED
system
STAT
On/Off button
J7
Conn_01x02_Pin
nQON
C11
0.1uF
PSEL input current limit
1 : 500mA USB UDP (default)
3 : 2.4A Adapter
R12
10k
JP1
Jumper_3_Open
PSEL
REGN
C16
4.7uF
C22
10uF
C17
1uF
C23
47nF
L1
1uH
C26
10uF
U2
BQ25619RTWR
VAC
PSEL
PMID_GOOD
STAT
SCL
SDA
EP
VBUS
PMID
REGN
BTST
SW_2
SW_1
PGND_2
PGND_1
SYS_2
SYS_1
BAT_2
BAT_1
/INT
NC
/CE
BATSNS
TS
/QON
R15
10k
pmic_i2c_clk
pmic_i2c_sda
pmic_nINT
pmic_nCE
charging enable
BAT+
BATS
R13
10k
R14
10k
C10
10uF
BAT-
Battery Temperature Sensing
LDO - Analog Regulator
U1
TLV75801PDBVR
IN
EN
OUT
FB
GND
C28
10uF
R25
750k
R26
150k
C31
10uF
R23
0
GNDA
Switching Regulators (1.8V and 3.3V)
IC4
TPS62A01PDDCR
IC5
TPS62A01PDDCR
EN
GND
SW
FB
PG
VIN
+1V8
L2
1uH
1V8_SW
L3
1uH
3V3_SW
+3.3V
R36
200k
R37
100k
C36
10uF
R33
499k
C32
4.7uF
R38
150k
R39
300k
R40
100k
C37
10uF
R35
499k
C33
4.7uF
GNDD
Connexions with MCU
PMIC
R29
10k
R32
10k
IO10
IO11
i2c_sda
i2c_clk
pmic_nINT
pmic_nCE
charging enable
pmic_i2c_sda
pmic_i2c_clk
SPI Screen / JTAG
R34
10k
lcd_vcc_ctrl
DMP3099L-13
Q1
lcd_vdc
lcd_gnd
lcd_scl
lcd_sda
lcd_res
lcd_dc
lcd_cs
lcd_blk
SCL : SPI
SDA : SPI
RES : Reset
DC : Data or Command mode
CS : CS (low to select)
BLK : back light control (PWM)
USB data
usb_d-
usb_d+
USB_DN
USB_DP
I2S
IO18
IO19
IO20
IO21
IO22
IO23
codec_reset_l
codec_i2s_mclk
codec_i2s_bclk
codec_i2s_wclk
codec_i2s_din
codec_i2s_dout
User interface
IO0
IO4
IO5
IO1
button_enter
button_back
button_next
button_direction
R30
0
R31
0
IO9
IO8
opt
led_adc
led_dac
Wait for debug to be finished to solder resistor
UART Connector
J3
Conn_01x04_Pin
uart_power
uart_tx
uart_rx
GNDD
jack 3.5mm
J4
ASJ-200-B-HT
jack35_right
jack35_left
jack 2.5mm
J1
SJ1-2503A
TIP_2
TIP_1
SLEEVE
RING
jack25_left
jack25_right
Control Buttons
SW1
SW_Push
button_back
R1
100k
C1
0.1uF
SW2
SW_Push
button_enter
R2
100k
C2
0.1uF
SW3
SW_Push
button_next
R3
100k
C3
0.1uF
Audio Codec
#DVDD04
+1V8
C4
1uF
C7
0.1uF
codec_reset_l
C12
0.1uF
C13
1uF
IC1
TLV320AIC3101IRHBR
EP
DVDD
RESET
RIGHT_LOM
RIGHT_LOP
LEFT_LOM
LEFT_LOP
AVSS2
AVDD
MCLK
BCLK
WCLK
DIN
DOUT
DVSS
IOVDD
SCL
SDA
DRVDD_2
HPROUT
HPRCOM
DRVSS
HPLCOM
HPLOUT
DRVDD_1
AVSS1
MIC1LP/LINE1LP
MIC1LM/LINE1LM
MIC1RP/LINE1RP
MIC1RM/LINE1RM
MIC2L/LINE2L/MICDET
MICBIAS
MIC2R/LINE2R
codec_i2s_mclk
codec_i2s_bclk
codec_i2s_wclk
codec_i2s_din
codec_i2s_dout
i2c_clk
i2c_sda
C5
1uF
C6
0.1uF
C14
0.1uF
C18
10uF
C15
0.1uF
C19
1uF
Connect inputs
C8
1uF
R9
0
C9
1uF
R10
0
LINE2R
LINE2L
Connect outputs
JP2
jumper_RCOM
JP3
jumper_ROUT
JP4
jumper_LCOM
JP5
jumper_LOUT
C20
10uF
R16
0
C21
10uF
R17
0
jack35_right
jack35_left
LED
D4
LED
D7
LED
R7
1M
R8
1M
J5PWR_FLAG
Conn_01x03_Pin
BATTS
BAT-
BAT+
J6
Conn_01x04_Pin
jtag_tms
jtag_tdi
jtag_tck
jtag_tdo
J9
Conn_01x08_Pin
MCU : ESP32-C6-WROOM-1-N8
IC3
ESP32-C6-WROOM-1-N8
GND_1
3V3
EN
IO4
IO5
IO6
IO7
IO0
IO1
IO8
IO10
IO11
IO12
IO13
IO9
IO18
IO19
IO20
IO21
IO22
IO23
NC
IO15
RXD0
TXD0
IO3
IO2
GND_2
GND_3
GND_4
GND_5
GND_6
GND_7
GND_8
GND_9
GND_10
GND_11
mcu_enable
usb_d-
usb_d+
C24
22uF
C27
0.1uF
I2C
R19
10k
R20
10k
Boot
R18
10k
R21
10k
DS04-254-2-02BK-SMT
NO_1
COM_1
NO_2
COM_2
Boot Config:
Both should NOT be ON, ON
Opt 1 SPI Boot 1 OFF, 2 ANY (default)
Opt 2 Download Boot 1 ON, 2 OFF
Reset button
Should be Hidden
SW6
SW_Push
R24
10k
C29
0.1uF
C30
1uF
JTAG
UART
R22
100k
SW5
SW_SPDT
button_direction
C25
0.1uF
Author : Paul Capgras
Sheet: /
File: jack2bluetooth.kicad_sch
Title: Jack2Bluetooth
Size: A3
Date:
Rev: 2.0
KiCad E.D.A. 8.0.9
Id: 1/1