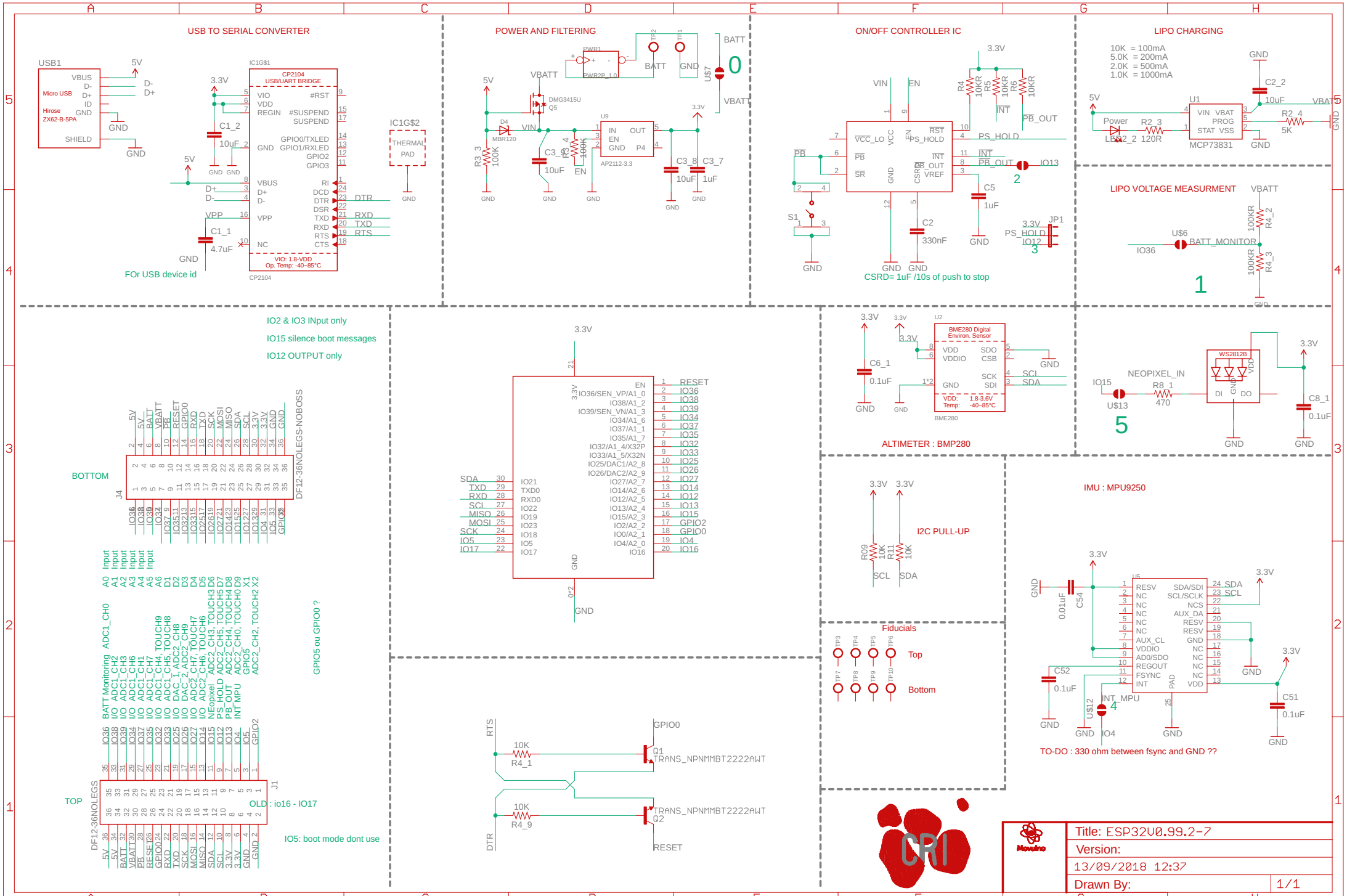
USB TO SERIAL CONVERTER
USB1
Micro USB
Hirose ZX62-B-5PA
VBUS
D-
D+
ID
GND
SHIELD
5V
3.3V
IC1G$1
CP2104 USB/UART BRIDGE
VIO
VDD
REGIN
#RST
#SUSPEND
SUSPEND
GPIO0/TXLED
GPIO1/RXLED
GPIO2
GPIO3
VBUS
D+
D-
VPP
NC
RI
DCD
DTR
DSR
TXD
RXD
RTS
CTS
VIO: 1.8-VDD
Op. Temp: -40~85°C
CP2104
C1_2
10uF
C1_1
4.7uF
IC1G$2
THERMAL PAD
FOr USB device id
POWER AND FILTERING
PWR1
PWR2P_1.0
BATT
GND
TF2
TF1
U$7
VBATT
DMG3415U
Q5
D4
MBR120
R3_3
100K
C3_3
10uF
R3_4
100K
EN
U9
AP2112-3.3
IN
OUT
EN
GND
P4
C3_8
10uF
C3_7
1uF
ON/OFF CONTROLLER IC
VIN
EN
R4 10KR
R5 10KR
R6 10KR
INT
PB_OUT
VCC_LO
VCC
RST
PS_HOLD
PB
SR
GND
CSR
VREF
IO13
C5
1uF
C2
330nF
S1
JP1
PS_HOLD
IO12
CSRD= 1uF /10s of push to stop
LIPO CHARGING
10K = 100mA
5.0K = 200mA
2.0K = 500mA
1.0K = 1000mA
C2_2
10uF
U1
VIN VBAT
PROG
STAT VSS
MCP73831
Power
LED2_2
R2_3
120R
R2_4
5K
LIPO VOLTAGE MEASURMENT
U$6
BATT_MONITOR
IO36
R4_2
100KR
R4_3
100KR
IO2 & IO3 INput only
IO15 silence boot messages
IO12 OUTPUT only
BOTTOM
J4
DF12-36NOLEGS-NOBOSS
TOP
J1
DF12-36NOLEGS
OLD : io16 - IO17
IO5: boot mode dont use
GPIO5 ou GPIO0 ?
EN
IO36/SEN_VP/A1_0
IO38/A1_2
IO39/SEN_VN/A1_3
IO34/A1_6
IO37/A1_1
IO35/A1_7
IO32/A1_4/X32P
IO33/A1_5/X32N
IO25/DAC1/A2_8
IO26/DAC2/A2_9
IO27/A2_7
IO14/A2_6
IO12/A2_5
IO13/A2_4
IO15/A2_3
IO2/A2_2
IO0/A2_1
IO4/A2_0
IO16
IO21
TXD0
RXD0
IO22
IO19
IO23
IO18
IO5
IO17
RESET
IO36
IO38
IO39
IO34
IO37
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
IO13
IO15
GPIO2
GPIO0
IO4
IO16
ALTIMETER : BMP280
BME280 Digital Environ. Sensor
VDD
VDDIO
SDO
CSB
SCK
SDI
VDD: 1.8-3.6V
Temp: -40~85°C
BME280
C6_1
0.1uF
NEOPIXEL_IN
IO15
U$13
R8_1
470
WS2812B
DI
DO
C8_1
0.1uF
I2C PULL-UP
R09 10K
R11 10K
SCL
SDA
IMU : MPU9250
U5
RESV
NC
AUX_CL
VDDIO
AD0/SDO
REGOUT
FSYNC
INT
SDA/SDI
SCL/SCLK
NCS
AUX_DA
PAD
VDD
C54
0.01uF
C52
0.1uF
C51
0.1uF
INT_MPU
IO4
TO-DO : 330 ohm between fsync and GND ??
Fiducials
Top
Bottom
RTS
10K
R4_1
Q1
TRANS_NPNMMBT2222AWT
10K
R4_9
Q2
DTR
RESET
Title: ESP32V0.99.2-7
Version:
13/09/2018 12:37
Drawn By:
1/1