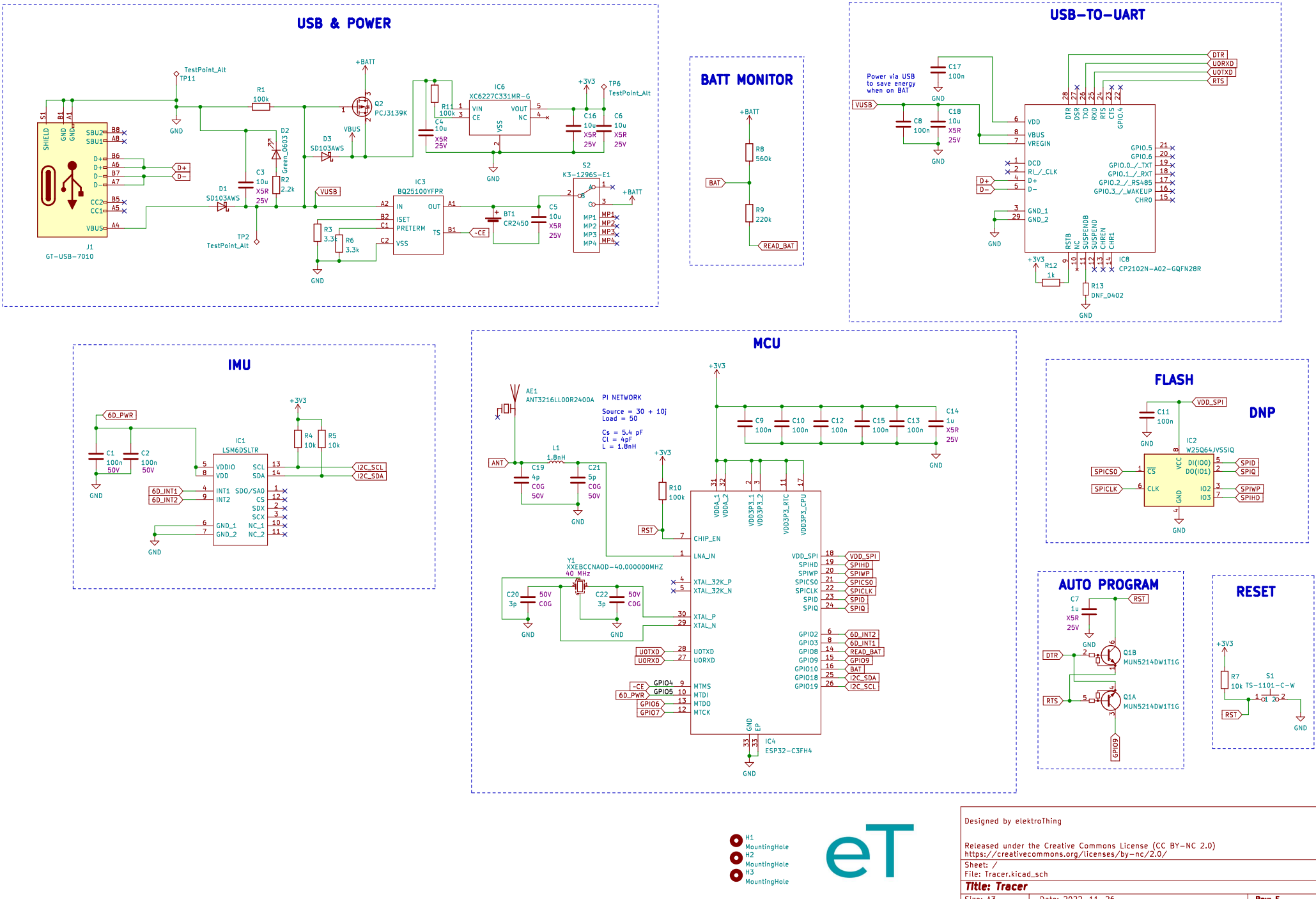
USB & POWER
TestPoint_Alt
TP11
GND
R1
100k
+BATT
Q2
PCJ3139K
VBUS
D3
SD103AWS
R11
100k
C4
10u
X5R
25V
IC6
XC6227C331MR-G
VIN
CE
VOUT
NC
VSS
+3V3
TP6
TestPoint_Alt
C16
10u
X5R
25V
C6
10u
X5R
25V
J1
GT-USB-7010
SHIELD
SBU2
SBU1
D+
D-
CC2
CC1
VBUS
D+
D-
D1
SD103AWS
C3
10u
X5R
25V
D2
Green_0603
R2
2.2k
TP2
TestPoint_Alt
VUSB
IC3
BQ25100YFPR
IN
OUT
ISET
PRETERM
TS
VSS
R3
3.3k
R6
3.3k
BT1
CR2450
C5
10u
X5R
25V
-CE
S2
K3-12965-E1
MP1
MP2
MP3
MP4
+BATT
BATT MONITOR
+BATT
R8
560k
BAT
R9
220k
READ_BAT
USB-TO-UART
Power via USB
to save energy
when on BAT
C17
100n
C8
100n
C18
10u
X5R
25V
VUSB
VDD
VBUS
VREGIN
DCD
RI/_CLK
D+
D-
GND_1
GND_2
DTR
DSR
TXD
RXD
RTS
CTS
GPIO.4
GPIO.5
GPIO.6
GPIO.0_/_TXT
GPIO.1_/_RXT
GPIO.2_/_RS485
GPIO.3_/_WAKEUP
CHR0
RSTB
NC
SUSPENDB
SUSPEND
CHREN
CHR1
R12
1k
R13
DNF_0402
IC8
CP2102N-A02-GQFN28R
IMU
6D_PWR
C1
100n
50V
C2
100n
50V
IC1
LSM6DSLTR
VDDIO
VDD
INT1
INT2
SDO/SA0
CS
SDX
SCX
GND_1
GND_2
SCL
SDA
NC_1
NC_2
6D_INT1
6D_INT2
R4
10k
R5
10k
I2C_SCL
I2C_SDA
MCU
AE1
ANT3216LL00R2400A
PI NETWORK
Source = 30 + 10j
Load = 50
Cs = 5.4 pF
Cl = 4pF
L = 1.8nH
ANT
L1
1.8nH
C19
4p
C0G
50V
C21
5p
C0G
50V
C9
100n
C10
100n
C12
100n
C15
100n
C13
100n
C14
1u
X5R
25V
R10
100k
RST
CHIP_EN
LNA_IN
Y1
XXEBCCNAOD-40.000000MHZ
40 MHz
C20
3p
C0G
50V
C22
3p
C0G
50V
XTAL_32K_P
XTAL_32K_N
XTAL_P
XTAL_N
U0TXD
U0RXD
MTMS
MTDI
MTDO
MTCK
GPIO4
GPIO5
GPIO6
GPIO7
-CE
6D_PWR
VDDA_1
VDDA_2
VDD3P3_1
VDD3P3_2
VDD3P3_RTC
VDD3P3_CPU
GND
EP
IC4
ESP32-C3FH4
VDD_SPI
SPIHD
SPIWP
SPICS0
SPICLK
SPID
SPIQ
GPIO2
GPIO3
GPIO8
GPIO9
GPIO10
GPIO18
GPIO19
6D_INT2
6D_INT1
READ_BAT
GPIO9
BAT
I2C_SDA
I2C_SCL
FLASH
DNP
C11
100n
IC2
W25Q64JVSSIQ
SPICS0
SPICLK
CS
CLK
DI(IO0)
DO(IO1)
IO2
IO3
VCC
GND
SPID
SPIQ
SPIWP
SPIHD
AUTO PROGRAM
C7
1u
X5R
25V
DTR
RTS
Q1B
MUN5214DW1T1G
Q1A
MUN5214DW1T1G
GPIO9
RESET
+3V3
R7
10k
S1
TS-1101-C-W
RST
GND
H1
MountingHole
H2
MountingHole
H3
MountingHole
eT
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Sheet: /
File: Tracer.kicad_sch
Title: Tracer
Size: A3
Date: 2022-11-26
Rev: F
KiCad E.D.A. kicad (6.0.0)
Id: 1/1