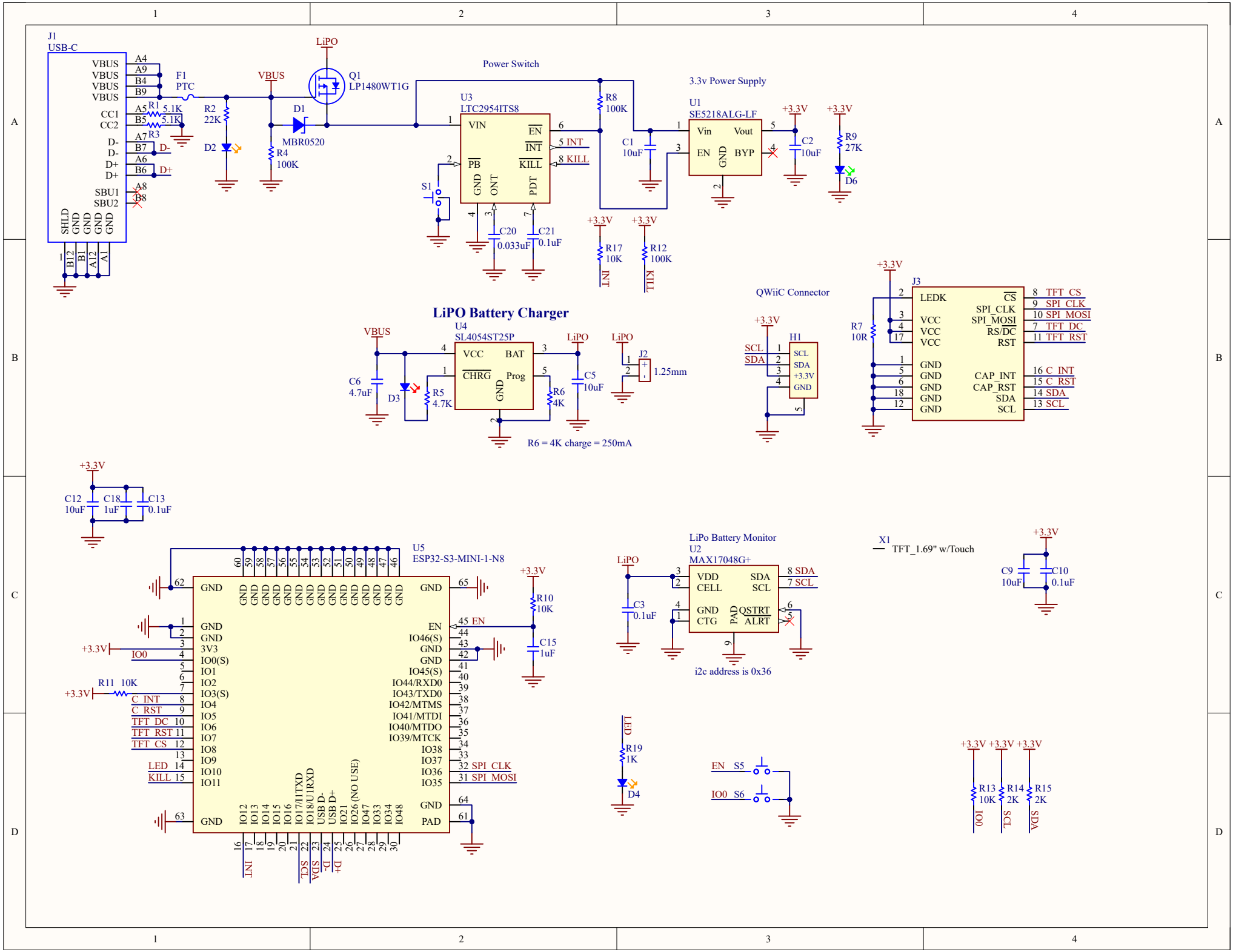
J1
USB-C
VBUS
CC1
CC2
D-
D+
SBU1
SBU2
SHLD
GND
F1
PTC
R1 5.1K
R3 5.1K
R2 22K
D2
VBUS
LiPO
Q1
LP1480WT1G
D1
MBR0520
R4 100K
Power Switch
U3
LTC2954ITS8
VIN
EN
INT
PB
KILL
GND
ONT
PDT
5 INT
8 KILL
S1
C20 0.033uF
C21 0.1uF
R8 100K
C1 10uF
3.3v Power Supply
U1
SE5218ALG-LF
Vin
Vout
EN
GND
BYP
+3.3V
C2 10uF
R9 27K
D6
R17 10K
R12 100K
INT
KILL
LiPO Battery Charger
U4
SL4054ST25P
VCC
BAT
CHRG
Prog
GND
C6 4.7uF
D3
R5 4.7K
R6 4K
C5 10uF
J2
1.25mm
R6 = 4K charge = 250mA
QWiiC Connector
H1
SCL
SDA
+3.3V
GND
J3
LEDK
VCC
GND
CS
SPI_CLK
SPI_MOSI
RS/DC
RST
CAP_INT
CAP_RST
SDA
SCL
R7 10R
8 TFT_CS
9 SPI_CLK
10 SPI_MOSI
7 TFT_DC
11 TFT_RST
16 C_INT
15 C_RST
14 SDA
13 SCL
C12 10uF
C18 1uF
C13 0.1uF
U5
ESP32-S3-MINI-1-N8
3V3
IO0(S)
IO1
IO2
IO3(S)
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
IO16
IO17/I1TXD
IO18/U1RXD
USB D-
USB D+
IO21
IO26 (NO USE)
IO47
IO33
IO34
IO48
IO45(S)
IO44/RXD0
IO43/TXD0
IO42/MTMS
IO41/MTDI
IO40/MTDO
IO39/MTCK
IO38
IO37
IO36
IO35
PAD
EN
IO46(S)
IO0
R11 10K
C_INT
C_RST
TFT_DC
TFT_RST
TFT_CS
LED
KILL
SPI_CLK
SPI_MOSI
R10 10K
C15 1uF
LiPo Battery Monitor
U2
MAX17048G+
VDD
CELL
GND
CTG
PAD
SDA
SCL
QSTRT
ALRT
C3 0.1uF
i2c address is 0x36
X1
TFT_1.69" w/Touch
C9 10uF
C10 0.1uF
R19 1K
D4
EN S5
IO0 S6
R13 10K
R14 2K
R15 2K