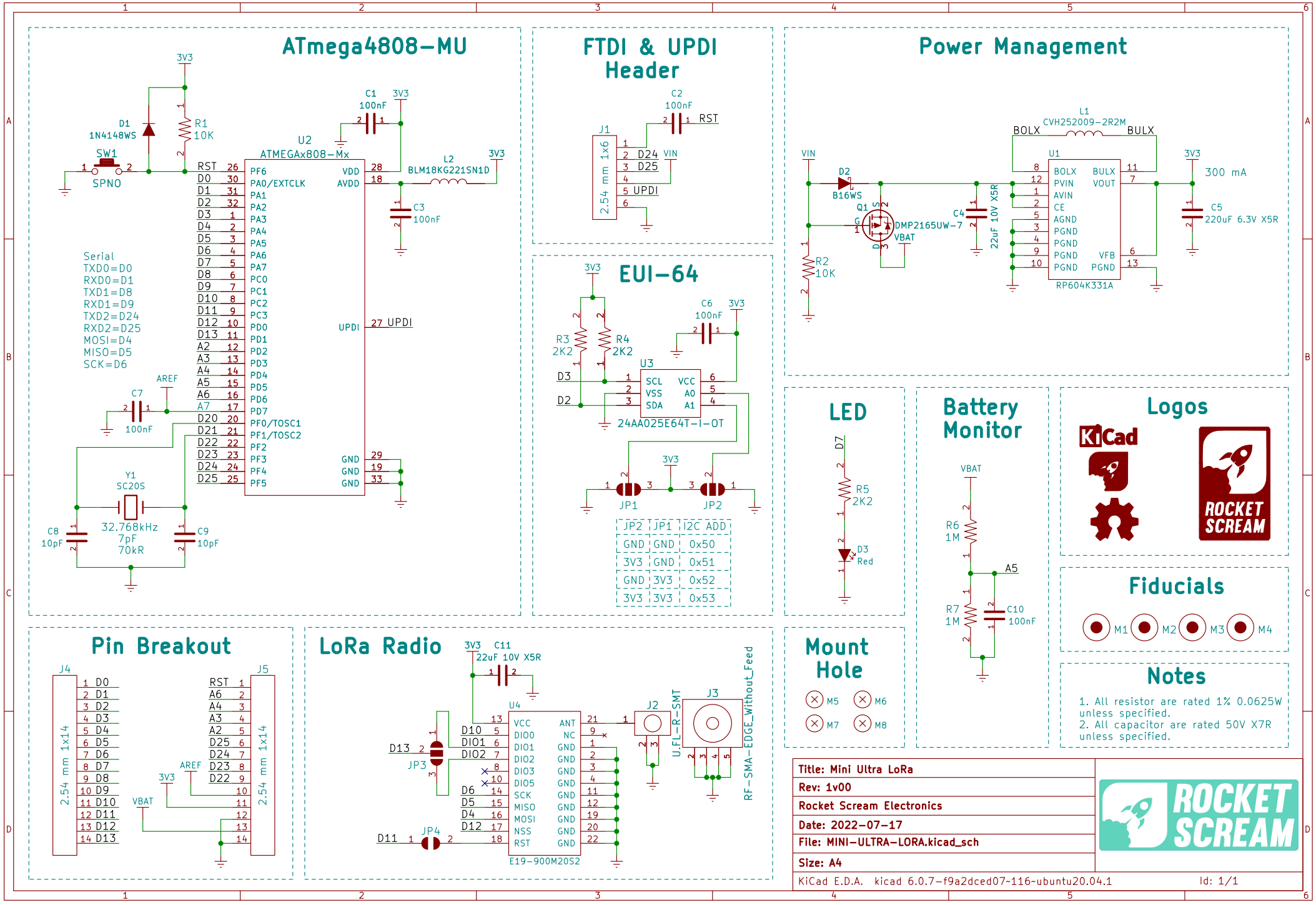
ATmega4808-MU
U2
ATMEGAx808-Mx
3V3
D1
1N4148WS
R1
10K
SW1
SPNO
C1
100nF
L2
BLM18KG221SN1D
C3
100nF
RST
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
A2
A3
A4
A5
A6
A7
D20
D21
D22
D23
D24
D25
PF6
PA0/EXTCLK
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PC0
PC1
PC2
PC3
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
PF0/TOSC1
PF1/TOSC2
PF2
PF3
PF4
PF5
VDD
AVDD
UPDI
GND
Serial
TXD0=D0
RXD0=D1
TXD1=D8
RXD1=D9
TXD2=D24
RXD2=D25
MOSI=D4
MISO=D5
SCK=D6
AREF
C7
100nF
Y1
SC20S
32.768kHz
7pF
70kR
C8
10pF
C9
10pF
FTDI & UPDI Header
C2
100nF
RST
J1
2.54 mm 1x6
D24
D25
VIN
UPDI
EUI-64
C6
100nF
R3
2K2
R4
2K2
U3
SCL
VSS
SDA
VCC
A0
A1
24AA025E64T-I-OT
JP1
JP2
JP2 JP1 I2C ADD
GND GND 0x50
3V3 GND 0x51
GND 3V3 0x52
3V3 3V3 0x53
Power Management
L1
CVH252009-2R2M
BOLX
BULX
U1
VIN
D2
B16WS
Q1
DMP2165UW-7
VBAT
C4
22uF 10V X5R
R2
10K
PVIN
AVIN
CE
AGND
PGND
VFB
VOUT
RP604K331A
300 mA
C5
220uF 6.3V X5R
LED
D7
R5
2K2
D3
Red
Battery Monitor
VBAT
R6
1M
A5
R7
1M
C10
100nF
Logos
KiCad
ROCKET SCREAM
Fiducials
M1
M2
M3
M4
Pin Breakout
J4
J5
2.54 mm 1x14
LoRa Radio
C11
22uF 10V X5R
U4
VCC
DIO0
DIO1
DIO2
DIO3
DIO5
SCK
MISO
MOSI
NSS
RST
ANT
NC
GND
E19-900M20S2
D13
JP3
D11
JP4
J2
U.FL-R-SMT
J3
RF-SMA-EDGE_Without_Feed
Mount Hole
M5
M6
M7
M8
Notes
1. All resistor are rated 1% 0.0625W unless specified.
2. All capacitor are rated 50V X7R unless specified.
Title: Mini Ultra LoRa
Rev: 1v00
Rocket Scream Electronics
Date: 2022-07-17
File: MINI-ULTRA-LORA.kicad_sch
Size: A4
KiCad E.D.A. kicad 6.0.7-f9a2dced07~116~ubuntu20.04.1
Id: 1/1