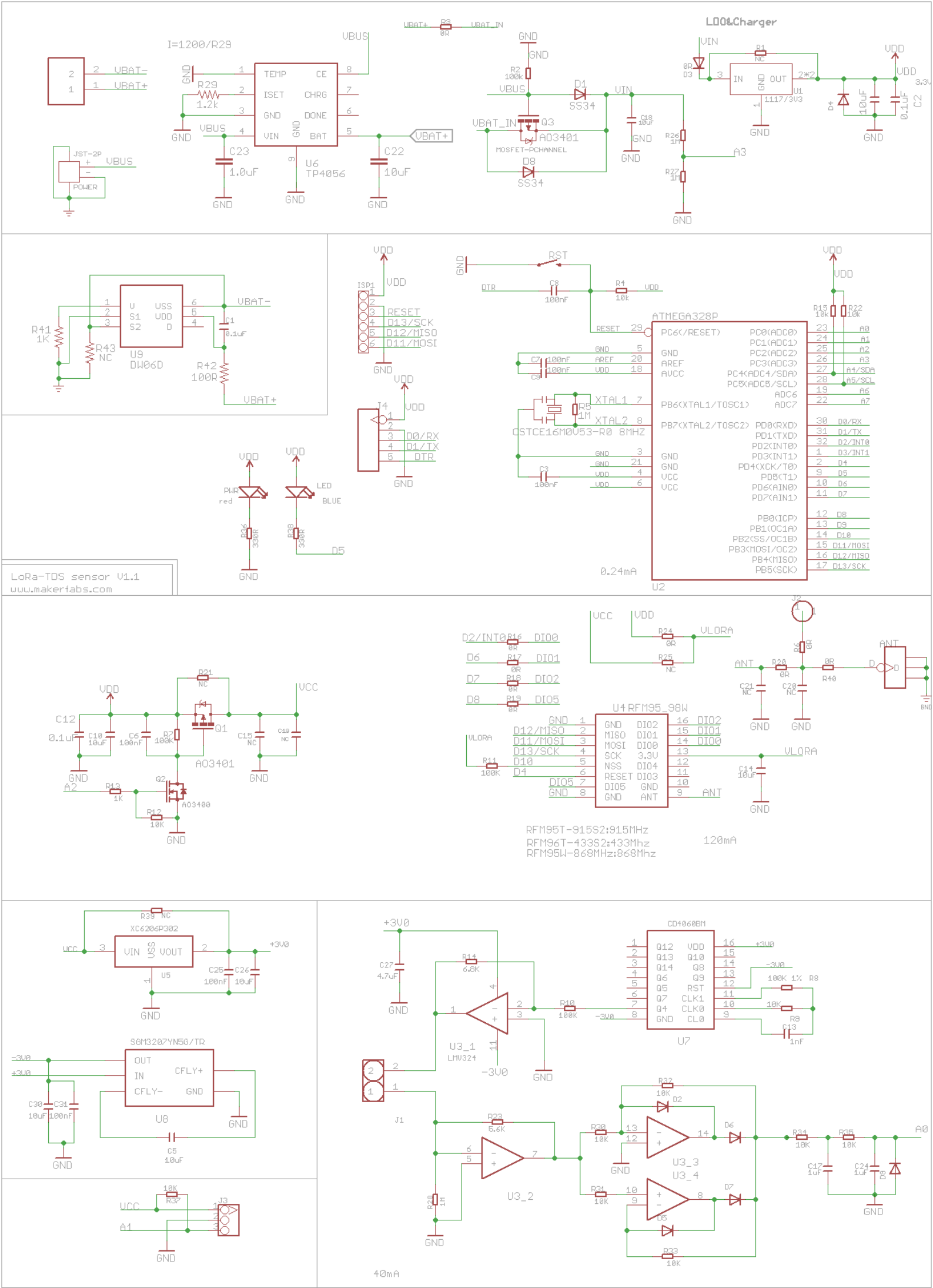
LDO&Charger
I=1200/R29
VBUS
VBAT+
VBAT-
VBAT_IN
R29 1.2k
U6 TP4056
TEMP
CE
ISET
CHRG
GND
DONE
VIN
BAT
C23 1.0uF
C22 10uF
JST-2P
POWER
R2 100k
D1 SS34
Q3 AO3401
MOSFET-PCHANNEL
D8 SS34
C18 10uF
R26 1M
R27 1M
A3
R1 NC
U1 1117/3V3
IN
OUT
D3
D4
10uF
0.1uF
C2
3.3V
U9 DW06D
U
USS
S1
VDD
S2
D
R41 1K
R43 NC
R42 100R
C1 0.1uF
ISP1
RESET
D13/SCK
D12/MISO
D11/MOSI
J4
D0/RX
D1/TX
DTR
RST
C8 100nF
R4 10k
ATMEGA328P
PC6(/RESET)
AREF
AVCC
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
VCC
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
R15 10k
R22 10k
A0
A1
A2
A3
A4/SDA
A5/SCL
A6
A7
D0/RX
D1/TX
D2/INT0
D3/INT1
D4
D5
D6
D7
D8
D9
D10
D11/MOSI
D12/MISO
D13/SCK
C7 100nF
C9 100nF
R5 1M
CSTCE16M0V53-R0 8MHZ
C3 100nF
0.24mA
U2
PWR
red
LED
BLUE
R36 330R
R38 330R
D5
LoRa-TDS sensor V1.1
www.makerfabs.com
R21 NC
C12 0.1uF
C10 10uF
C6 100nF
R7 100k
Q1 AO3401
C15 NC
C19 NC
A2
R13 1K
Q2 AO3400
R12 10K
D2/INT0
D6
D7
D8
R16 0R
R17 0R
R18 0R
R19 0R
DIO0
DIO1
DIO2
DIO5
R24 0R
R25 NC
VLORA
U4 RFM95_98W
GND
MISO
MOSI
SCK
NSS
RESET
DIO5
D12/MISO
D11/MOSI
D13/SCK
D10
D4
DIO2
DIO1
DIO0
3.3V
DIO4
DIO3
ANT
R11 100K
C14 10uF
RFM95T-915S2:915MHz
RFM96T-433S2:433Mhz
RFM95W-868MHz:868Mhz
120mA
J2
R6 0R
R20 0R
R40 0R
C21 NC
C20 NC
R39 NC
XC6206P302
VIN
VOUT
U5
C25 100nF
C26 10uF
+3V0
SGM3207YN5G/TR
OUT
IN
CFLY+
CFLY-
U8
C30 10uF
C31 100nF
C5 10uF
R37 10K
J3
A1
+3V0
C27 4.7uF
R14 6.8K
U3_1 LMV324
-3V0
R10 100K
CD4060BM
Q12
Q13
Q14
Q6
Q5
Q7
Q4
VDD
Q10
Q8
Q9
RST
CLK1
CLK0
CL0
U7
100K 1% R8
10K
R9
C13 1nF
J1
R23 5.6K
U3_2
R28 1M
R32 10K
D2
R30 10K
U3_3
U3_4
R31 10K
D6
D7
R33 10K
R34 10K
R35 10K
C17 1uF
C24 1uF
D9
A0
40mA