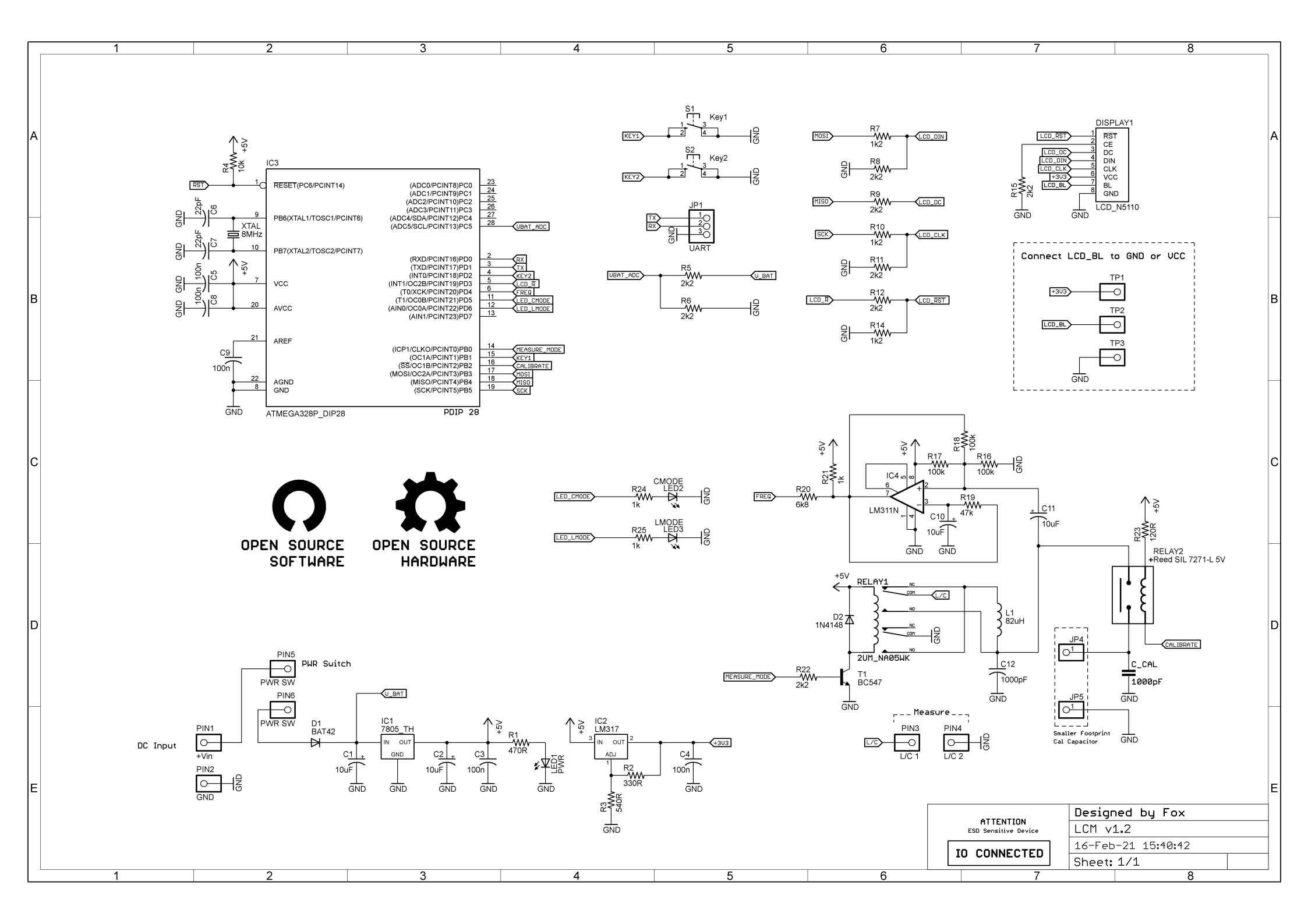
IC3
ATMEGA328P_DIP28
PDIP 28
RESET(PC6/PCINT14)
PB6(XTAL1/TOSC1/PCINT6)
PB7(XTAL2/TOSC2/PCINT7)
VCC
AVCC
AREF
AGND
GND
(ADC0/PCINT8)PC0
(ADC1/PCINT9)PC1
(ADC2/PCINT10)PC2
(ADC3/PCINT11)PC3
(ADC4/SDA/PCINT12)PC4
(ADC5/SCL/PCINT13)PC5
(RXD/PCINT16)PD0
(TXD/PCINT17)PD1
(INT0/PCINT18)PD2
(INT1/OC2B/PCINT19)PD3
(T0/XCK/PCINT20)PD4
(T1/OC0B/PCINT21)PD5
(AIN0/OC0A/PCINT22)PD6
(AIN1/PCINT23)PD7
(ICP1/CLKO/PCINT0)PB0
(OC1A/PCINT1)PB1
(SS/OC1B/PCINT2)PB2
(MOSI/OC2A/PCINT3)PB3
(MISO/PCINT4)PB4
(SCK/PCINT5)PB5
R4 10k
C6 22pF
C7 22pF
C5 100n
C8 100n
C9 100n
XTAL 8MHz
+5V
GND
RST
VBAT_ADC
RX
TX
KEY2
LCD_R
FREQ
LED_CMODE
LED_LMODE
MEASURE_MODE
KEY1
CALIBRATE
MOSI
MISO
SCK
S1 Key1
S2 Key2
JP1
UART
R5 2k2
R6 2k2
V_BAT
R7 1k2
R8 2k2
R9 2k2
R10 1k2
R11 2k2
R12 2k2
R14 1k2
LCD_DIN
LCD_DC
LCD_CLK
LCD_RST
DISPLAY1
RST
CE
DC
DIN
CLK
VCC
BL
GND
LCD_N5110
R15 2k2
Connect LCD_BL to GND or VCC
TP1
TP2
TP3
OPEN SOURCE SOFTWARE
OPEN SOURCE HARDWARE
CMODE
LED2
LMODE
LED3
R24 1k
R25 1k
R21 1k
R20 6k8
R17 100k
R18 100k
R16 100k
R19 47k
IC4
LM311N
C10 10uF
C11 10uF
R23 120R
RELAY2
+Reed SIL 7271-L 5V
RELAY1
D2
1N4148
2UM_NA05WK
L1
82uH
C12
1000pF
R22 2k2
T1
BC547
JP4
JP5
C_CAL
1000pF
Smaller Footprint
Cal Capacitor
Measure
PIN3
PIN4
L/C 1
L/C 2
PIN5
PWR Switch
PWR SW
PIN6
PWR SW
PIN1
+Vin
PIN2
DC Input
D1
BAT42
IC1
7805_TH
IN
OUT
GND
C1 10uF
C2 10uF
C3 100n
R1 470R
LED1
PWR
IC2
LM317
ADJ
R2 330R
R3 540R
C4 100n
+3V3
ATTENTION
ESD Sensitive Device
IO CONNECTED
Designed by Fox
LCM v1.2
16-Feb-21 15:40:42
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