JP1
3 TST3
2 TST2
1 TST1

+5V
R15 2K2
R16 2K2
LED

+5V

MEGA8-AI

RESET

+5V

29 PC6(/RESET)   PC0(ADC0) 23 TST1
                  PC1(ADC1) 24 TST2
21 GND   PC2(ADC2) 25 TST3
20 AREF   PC3(ADC3) 26 PC3
18 AVCC   PC4(ADC4/SDA) 27 PC4
                  PC5(ADC5/SCL) 28 PC5
                  ADC6 19 REF2.5V
7 PB6(XTAL1/TOSC1) ADC7 22 VBAT
8 PB7(XTAL2/TOSC2) PD0(RXD) 30 LCD_D4
                  PD1(TXD) 31 LCD_D5
3 GND   PD2(INT0) 32 LCD_D6
5 GND   PD3(INT1) 1 LCD_D7
4 VCC   PD4(XCK/T0) 2 LCD_RS
6 VCC   PD5(T1) 9 LCD_E
                  PD6(AIN0) 10 PD6
                  PD7(AIN1) 11 PD7
                  PB0(ICP) 12 N$4
                  PB1(OC1A) 13 N$5
                  PB2(SS/OC1B) 14 N$6
                  PB3(MOSI/OC2) 15 MOSI
                  PB4(MISO) 16 MISO
                  PB5(SCK) 17 SCK
IC1

X1
C4 22pF
C2 22pF
C6 1nF
GND
C8 0.1uF
C7 1uF
GND

R3 680R
R5 680R
R7 470K
R8 680R
R13 470K
R12 680R
R10 470K

Atmel ISP
J1
1 2
3 4
5 6
MISO
SCK
RESET
MOSI
+5V
GND

+5V
C5 0u1
GND

LCD DISPLAY 16x2 1602
16 LED_K
15 LED_A
14 D7
13 D6
12 D5
11 D4
10 D3
9 D2
8 D1
7 D0
6 E
5 R/W
4 RS
3 CONTR
2 VCC
1 GND
LCD1

LCD_D7
LCD_D6
LCD_D5
LCD_D4
LCD_E
LCD_RS

R17 1K
GND GND

R8 1K
R14 1K
R18 10k
R19 10k

INC
DEC

+5V +5V

S2   S3
GND

Spare I/O
+5V
JP2
1
2
3
4
5
PC5
PC4
PC3
GND

H1 MOUNT-PAD-ROUND3.0
H2 MOUNT-PAD-ROUND3.0

Q1 2N7002
VBAT

+UB
LED
+5V
On/Off Brightness
SW1
ON
BATT+
PD6
R2 10k
R4 10k
PD7
R6 47K
GND

S1

L1 4.7uH

U2 MCP1640
6 VIN   SW 1
3 SHDN VOUT 5
2 GND   FB 4

C1 10uF
GND

L2 600Z
R11 47K
R9 15K
C3 10uF
C9 10uF
+5V
GND GND GND GND

+5V
R1 2K2
REF2.5V
U1 TL431A
GND

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