Headers

USB

JP1
PD1 1
PD0 2
RESET 3
GND 4
PD2 5
PD3 6
PD4 7
PD5 8
PD6 9
PD7 10
PB0 11
PB1 12
PB2 13
PB3 14
PB4 15

JP2
1 VCC
2 GND
3 RESET
4 +5V
5 ADC7
6 ADC6
7 PC5
8 PC4
9 PC3
10 PC2
11 PC1
12 PC0
13 AREF
14 +3V3
15 PB5

RESET

R4 1k

ATMEGA168

+5V  +5V

RESET 29 PC6(/RESET)    PC0(ADC0) 23 PC0
                        PC1(ADC1) 24 PC1
C10   18 AVCC           PC2(ADC2) 25 PC2
100n  4 VCC             PC3(ADC3) 26 PC3
      6 VCC             PC4(ADC4/SDA) 27 PC4
GND                     PC5(ADC5/SCL) 28 PC5
AREF  20 AREF           ADC6 19 ADC6
                        ADC7 22 ADC7
C9
100n  7 PB6(XTAL1/TOSC1) PD0(RXD) 30 PD0
GND                      PD1(TXD) 31 PD1
                         PD2(INT0) 32 PD2
Q1    8 PB7(XTAL2/TOSC2) PD3(INT1) 1 PD3
PS1  PS2                 PD4(XCK/T0) 2 PD4
16MHz                    PD5(T1) 9 PD5
C7    C8                 PD6(AIN0) 10 PD6
18p   18p                PD7(AIN1) 11 PD7
GND   GND
                         PB0(ICP) 12 PB0
      5 AGND             PB1(OC1A) 13 PB1
      3 GND              PB2(SS/OC1B) 14 PB2
      21 GND             PB3(MOSI/OC2) 15 PB3
GND                      PB4(MISO) 16 PB4
U1                       PB5(SCK) 17 PB5

+5V  +5V          U2
PD0  R6  R5       1 TXD   USBDM 16   D+
PD1  1K            5 RXD   USBDP 15   D-
         1K
RESET  C2  100n   11 CTS   VCC 20
                   3 RTS   3V3OUT 17
                   2 DTR   VCCIO 4
RXD  TXD
                  26 TEST
R1  R2            25 AGND  GND1
680  680           7       GND2 18
         23 TXLED          GND3 21
         22 RXLED
                  FT232RL-BASICSSOP

+5V  +3V3  +5V  V+
                        D+
                        D-
                        VBUS  USB
                        GND

C1    C6
100n  100n
GND   GND   GND

ICSP

PB4  MISO  ICSP  +5V
PB5  SCK   1  2  +5
RESET RESET 3  4  MOSI  PB3
            5  6  GND
AVR_SPI_PRG_6PTH
GND

Power Supply

VCC            +5V
               R3
C3   IN OUT    680
100n    GND         PWR
GND  U3   C4  C5
     LM1117 100n 10u
     GND  GND GND  GND

Supply Selection

V+   +5V
D1
BAT54A

ATMega

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Sheet: 1/1

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