I2C
1 SDA
2 SCL
I2C
Gnd

JP1
12 TXD
11 RXD
10 RESET
9 GND
8 D2
7 1W
6 D4
5 D5
4 D6
3 D7
2 D8
1 D9

C1 100n

U-BAT
1 U-BAT
2 GND
3 RESET
4 +3.3V
5 A3
6 A2
7 A1
8 A0
9 SCK
10 MISO
11 MOSI
12 D10
JP2

breakout board connector

+3.3V
JP5
4 SDA
3 SCL
2
1
PH1X4-05
GND

R5 4.7k   R6 4.7k

+3.3V

IC3
SCL VCC
SDA A0
INT GND
MAX44009
I2C address: 0x4A

+3.3V
100n
C2
GND
GND

+3.3V

IC4
5 SDO VCC 8
2 CSB VCCIO 6
3 SDI GND 1
4 SCK GND 7
BME280
I2C address: 0x76

+3.3V
100n
C3
GND

circuit for AS312 PIR sensor

+3.3V   +3.3V

R10 20k

A2

JP3
1
2
3
R11 10k
T2
GND   GND

U-BAT
R2 470/33/10
A1
R3 100/10/10
SJ2
1 2
T1
R4 4.7k
D7
IRM6344/SI2302
either T1/R4 OR
SJ2 closed
GND   GND

10k R1 +3.3V

RESET 29 PC6(/RESET)

Atmega 328P

+3.3V
21 GND
20 AREF
18 AVCC

C5 100n   C6 100n
GND   GND   GND

7 PB6(XTAL1/TOSC1)
8 PB7(XTAL2/TOSC2)

+3.3V
3 GND
5 GND
4 VCC
6 VCC

C7 100n
GND

IC1

PC0(ADC0) 23 A0
PC1(ADC1) 24 A1
PC2(ADC2) 25 A2
PC3(ADC3) 26 A3
PC4(ADC4/SDA) 27 SDA
PC5(ADC5/SCL) 28 SCL
ADC6 19
ADC7 22

PD0(RXD) 30 RXD
PD1(TXD) 31 TXD
PD2(INT0) 32 D2
PD3(INT1) 1 1W
PD4(XCK/T0) 2 D4
PD5(T1) 9 D5
PD6(AIN0) 10 D6
PD7(AIN1) 11 D7

PB0(ICP) 12 D8
PB1(OC1A) 13 D9
PB2(SS/OC1B) 14 D10
PB3(MOSI/OC2) 15 MOSI
PB4(MISO) 16 MISO
PB5(SCK) 17 SCK

+3.3V
1
2
3
4
JP4
GND

R8 4k7
1W
IC5
IC
DS18B20
+3.3V
GND

R7 1.5k   LED1

+3V

R9 100k

CONFIG
1 2
GND   GND

C4 1µ

M1
VCC
GND
MOSI
SCLK
MISO
GDO2
GDO0
CSN
GND Ant
ANT
GND ANT

GND

SJ1
1 2
10µH
L1
L1 = LQH43CN100K03L

+3.3V

PAD1

BAT+

PAD2

BAT-

MAX172x
1 BATT   LX 5
3 SHDN GND OUT 4
2

C8 10µ   C9 10µ   C10 22µ

GND   GND

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Document Number: REV:

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