I2C
Gnd 1 SDA
2 SCL
I2C

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

100n C1
RESET

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

IC3
2 ADDR VDD 1
6 SDA
4 SCL
5 INT GND 3
TSL2561
I2C address: 0x29

+3.3V
100n C2
GND
GND GND

IC4
P$4 SDO CSB P$1
P$5 SCL VDD P$2
P$6 SDA VDDIO P$3
P$7 GND
BMP180
I2C address: 0x77

+3V
4,7k R5
4,7k R6
GND

100n 100n C3 C4
GND GND

A1
SJ2
1 2 D7
R4 4,7k

U-BAT R2 R3 8,2
8,2/22
T1
IRML6344
GND
either T1/R4 OR
SJ2 closed

IC5
+3.3V
5 SDO VCC 8
2 CSB VCCIO 6
3 SDI GND 1
4 SCK GND 7
BME280
I2C address: 0x76
GND
C11 100n
GND

4k7 R8
1W
IC6
IC
DS18B20
GND

10k R1 +3.3V

Atmega 328P

RESET 29 PC6(/RESET) PC0(ADC0) 23 A0
21 AGND PC1(ADC1) 24 A1
20 AREF PC2(ADC2) 25 A2
18 AVCC PC3(ADC3) 26 A3
PC4(ADC4/SDA) 27 SDA
PC5(ADC5/SCL) 28 SCL
ADC6 19
7 PB6(XTAL1/TOSC1) ADC7 22
8 PB7(XTAL2/TOSC2) PD0(RXD) 30 RXD
PD1(TXD) 31 TXD
3 GND PD2(INT0) 32 D2
5 GND PD3(INT1) 1 1W
4 VCC PD4(XCK/T0) 2 D4
6 VCC 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
IC1

100n C5
GND GND

C6 100n
GND

C7 100n
GND

+3.3V

SV1
+3.3V
1
2
3
4
GND

R7 1,5k LED1
CONFIG
1 2
GND GND

C12 1µ
+3.3V

CC1101-MODULE
VCC
GND
SI
SCLK GND Ant
SO ANT
GDO2 GND ANT
GDO0
CSN
GND

SJ1
1 2
10µH
L1
L1 = LQH43CN100K03L
+3.3V

PAD1
BAT+_3V
PAD2
BAT-

MAX1724+
1 BATT LX 5
3 SHDN OUT 4
2 GND

10µ C8
C9 10µ
C10 22µ
GND GND

TITLE: Aussensensor_v1.4
Document Number:
REV:
Date: 11.12.2018 21:00:00
Sheet: 1/1

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