A

Power supply

Pwr sw
J9
PWR
B+
IC1
MCP1703CB
VI   VO
GND
+3V3
C1
1000uF
C2
100nF
GND

Batteries

B+
1
2
U2
2479
+
−
3
4
GND

$PW
T1
BSS138
SPC
D
G
S
R1
10k
GND
GND

Sensor power switch

GND
+3V3
RX
TX
PGM
1
2
3
4
J6

B

Enable
GND
PGM 1
2
J5

Programming interface

RST
ADC
RST
SDA
SCL
SPC
U1
RESET
ADC
CH_PD
GPIO16
GPIO14
GPIO12
GPIO13
VCC
TX
RX
GPIO4
GPIO5
GPIO0
GPIO2
GPIO15
GND
ESP07-16PIN

+3V3
+3V3
TX
RX
1W
DHT
PGM
GPIO2
GPIO15

GND
+3V3 +3V3 GND
R6 10k R7 10k R8 10k

+3V3
C3
100nF
GND

GND

C

10k R4
+3V3
S1
GND
RST
C4
100nF
GND

Reset

+3V3
R3 4.7k
+3V3
R2 4.7k

Sensors1
1
SPW 2
1W 3
DHT 4
J4

C

D

GPIO15
R14
SPW

Debug LED

D3

B+
R5
470k
0.175 * B+
ADC
R12
100k
SPW

Battery level measure

SCL
SDA
R10 4.7k
+3V3
R9 4.7k
+3V3

I2C pull-ups

+3V3
Sensors2
1
SPW 2
SCL 3
SDA 4
J2

+3V3
Analog
1
2
SPW 3
ADC 4
GPIO15
J3

Sensor connectors

E