R10
220k

ADC

R11
100k

GND

I2C
4 GND
3 GPIO5
2 GPO4
1 +3V3

1-WIRE
3 GND
2 GPIO14
1 +3V3

R8
470
TXD0

R9
470
RXD0

U3
IN OUT
EN
GND NC
3.3V

C1 C2
104 106

C3 C4

+3V3

GND

IN+ OUT+
B+
B-
IN- OUT-
LIPO Charger

OUT+
OUT+

B+

B-

OUT-

GND

U1
RST   RESET   TX   TX
ADC   ADC   RX   RX
EN   CH_PD   GPIO4   GPIO4
GPIO16 GPIO16   GPIO5   GPIO5
GPIO14 GPIO14   GPIO0   GPIO0
GPIO12 GPIO12   GPIO2   GPIO2
GPIO13 GPIO13   GPIO15   GPIO15
+3V3   VCC   GND   GND

CS0 MISO *GPIO9 *GPIO10 MOSI SCLK

+3V3

GND

* Can only be used on the ESP12-D
(Untested. Info from esp8266 wiki)

+3V3

R1
12k   GPIO0
R2
12k   GPIO2
R3
12k   EN
R4
12k   RST
R5
12k   GPIO15

GND

RST

Q2

R6
12k

Q1
GPIO0

R7
12k

+3V3

X1

CH340G
9 CTS   XO   8 XO
10 DSR   XI   7 XI
11 RI   D-   6
12 DCD   D+   5
13 DTR   V3   4
14 RTS   RX   3 TXD0
15 RS232 TX   2 RXD0
16 VCC   GND 1

1
2
3
4
5

MINI-USB-SHIELD-UX60A-MB-5ST

GND

U$3
MICROSD_SPI_MODE

microSD CARD
NC   1
/CS   2
DI   3
VDD   4
CLK   5
VSS   6
DO   7
RSV   8
CD(1) 9
CD(2) 10

R12
12k

R13
12k

R14
12k

+3V3

GND

XO

XI

Q3
12MHz

C5
22pF

C6
22pf

GND   GND

29/05/2016 17:11 f=0.84 /home/chrisi/backspace/projects/esp8266-ConsSense/eagle/ConsSens.sch (Sheet: 1/1)