PSU

+5V
+3.3V
+3.3V
+5V
+3.3V

R3 10k
R2 1k
U4 AMS1117-3.3

J3
1
2 TXD
3
4

JP1
2N3904
Q1

R1 10k

VI
GND
VO

MCU

ESP-12E U3

+3.3V
+3.3V
+3.3V
+3.3V

R10 10k
R11 10k
R7 10k
R6 10k
R8 4.7k
R9 4.7k

J2
1
2

1 RST
2 ADC
3 EN
4 GPIO16
5 GPIO14
6 GPIO12
7 GPIO13
8 VCC

GPIO1/TXD 22 TXD
GPIO3/RXD 21 RXD
GPIO5 20 SCL
GPIO4 19 SDA
GPIO0 18
GPIO2 17
GPIO15 16
GND 15

9 CS0
10 MISO
11 GPIO9
12 GPIO10
13 MOSI
14 SCLK

+3.3V

C2 0.1uF
C1 4.7uF

R5 10k
R4 1k

J1
1
2

MCU

DS3231 U3

+3.3V

J4
1 SCL
2 SDA
3
4

SCL
SDA
+3.3V

8 SCL
7 SDA
2 VCC
5 GND

Brajesh Kumar
Sheet:
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