LED CHANNELS

J1
VRAW 1 VCC
2 GND

J2
VRAW 1 VCC
2 GND

J3
VRAW 1 VCC
2 GND

J4
VRAW 1 VCC
2 GND

J5
VRAW 1 VCC
2 GND

PWM2 IC1
1 G
2 D
3 S
R1 10k
GND

PWM4 IC2
1 G
2 D
3 S
R2 10k
GND

PWM5 IC3
1 G
2 D
3 S
R3 10k
GND

PWM1 IC4
1 G
2 D
3 S
R4 10k
GND

PWM3 IC5
1 G
2 D
3 S
R5 10k
GND

U3
RFM69_RS   6 RESET   3.3V   13   +3V3
                      DIO0   14   RFM69_IRQ
RFM69_SS   5 NSS   DIO1   15
SCK   4 SCK   DIO2   16
MOSI   3 MOSI   DIO3   11   C3
MISO   2 MISO   DIO4   12   100uF
                      DIO5   7
ANT   9 ANT
             GND   1*3   GND
RFM69HCW

JP7
GND 1
GPIO0 2
     3
RX   4
TX   5
     6

U1
ESP-WROOM-32

JP2
1
2
3   GND   1 GND   GND 38 GND   JP6
4   +3V3   2 3V3   IO23 37 MOSI +3V3 1
5   3 EN   IO22 36 SCL   2
6   ADC1   4 SENSOR_VP TXD0 35 TX   3
7   ADC2   5 SENSOR_VN RXD0 34 RX   4
8   ADC3   6 I34   IO21 33 SDA   5
9   ADC4   7 I35   NC   32   6
10 PWM2   8 IO32   IO19 31 MISO   7
11 PWM4   9 IO33   IO18 30 SCK   8
12 IO25   10 IO25   IO5 29 RFM69_SS   9
13 IO26   11 IO26   IO17 28 IO17   10
14 IO27   12 IO27   IO16 27 IO16   11
    PWM5   13 PWM5   IO4 26 RFM69_IRQ   12
PWM3 PWM1   13 IO14   IO0 25 GPIO0   13
     IO12   14 IO12   14

JP3

GND IO13 SD2 SD3 CMD CLK SDO SD1 IO15 IO2
15 16   17 18 19 20 21 22 23   24
PWM3

External 12V for
LED Strip

JP1
VRAW 1
GND 2

U2
TL1963ADCQR
1 SHDN
2 IN
        SENSE/ADJ 5
        OUT   4
        GND   3

GND
R6 2.87k
R7 4.22k
C2 10uF
+3V3
JP5
1
2

C1 10uF
GND

JP4

GND

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