SPI Boot: GPIO0 - High GPIO2- Don't care
Download Boot: GPIO0 - Low, GPIO2 - Low

GND
C1
100n

U1
3V3

+3V3   3   EN
2   +3V3
BOOT
3V3
IO0   25
IO2   24
4   SENSOR_VP   IO4   26   CH1_OUT
5   SENSOR_VN   IO5   29   CH2_OUT
IO12   14   SW6
16   IO13
6   IO34   IO14   13   SW5
7   IO35   IO15   23
IO16   27   CH3_OUT
IO17   28   CH4_OUT
IO18   30   CH5_OUT
IO19   31   CH6_OUT
35   TXD0   IO21   33
34   RXD0   IO22   36
IO23   37
17*6   NC   IO25   10   SW3
32   NC1   IO26   11   SW4
IO27   12
IO32   8   SW1
IO33   9   SW2

GND   1*12

ESP32-WROOM-32E_(16MB)

SV1
5
4   BOOT
3
35   TXD0
34   RXD0
2
1

GND RX TX BOOT VCC

+3V3

R19   10k
R20   10k

+3V3
C16
100n

J4   1 2 3
G S V

POWER_JACKPTH_LOCK

VR1
3   INPUT   OUTPUT   2
ADJ/GND   1
LM1084IT-5.0/NOPB

+VIN
C2   10u
C3   100u
R21   680
LED1

J1

+3V3

+VIN   R11 1k R12 1k   Q4 IRF520   CH4_LED
T7 2N3904   T8 2N3904   C7 100n
CH4_OUT   R10 1k

+VIN   R14 1k R15 1k   Q5 IRF520   CH5_LED
T9 2N3904   T10 2N3904   C8 100n
CH5_OUT   R13 1k
GND GND GND GND

+VIN   R17 1k R18 1k   Q6 IRF520   CH6_LED
T11 2N3904   T12 2N3904   C9 100n
CH6_OUT   R16 1k

+VIN   R2 1k R3 1k   Q1 IRF520   CH1_LED
T1 2N3904   T2 2N3904   C4 100n
CH1_OUT   R1 1k

+VIN   R5 1k R6 1k   Q2 IRF520   CH2_LED
T3 2N3904   T4 2N3904   C5 100n
CH2_OUT   R4 1k

+VIN   R8 1k R9 1k   Q3 IRF520   CH3_LED
T5 2N3904   T6 2N3904   C6 100n
CH3_OUT   R7 1k

+VIN   1
CH1_LED   2
CH2_LED   3
CH3_LED   4
J2   B G R +

+VIN   1
CH4_LED   2
CH5_LED   3
CH6_LED   4
J3   B G R +

C10   100n   S1
SW1

C11   100n   S2
SW2

C12   100n   S3
SW3

C13   100n   S4
SW4

C14   100n   S5
SW5

C15   100n   S6
SW6