X1

UART GND TXO RXO TX1/IO2 CTSO RTSO

H IO0 H CH_EN

ESP_Test Board
ESP-WROOM-03

3V3 GND SDA SCL I2C
J88

X3

J69 C8 J14 U0CTS U0RTS J67 R63

IO0:
FLASH->H
UART->L

R83 R81
R82

C18 C21

R66 R64 R65
R67
J84 SDA SCL J83 SDASCL

IO2:SDA
IO14:SCL

IO13 RESET KEY
SW1

R44
WIFI LED R33 IO0 D2
LINK LED R34 IO12 D3

R4 R1/3/5/7 R8
R3 R2/4/6/8 R7
R2 R6
R1 R54 R5

IO15

L J66 L J79 R30

R85 C25

UNDEFINED LED&BUTTON

R69 R75 D16
R68 D14
R35 D13
D4

R72

J70

SW2

C17

J6

U5

HSPI_FLASH

R24 R22 H
U4

CS_HSPI flash

R25
R26
R27

FT232R

R23 J3

C16 R84
1.27
GND GND
GND TXD
IO5 RXD
TOUT RST
IO16 EN
IO0 IO4
IO15 IO2
IO12 IO13
IO14 3V3
J15 J16

2.0
R17
R16

C9 R49

D11 D10

R18
R19
R20
R21
R29

IO14
CLK
IO12
MISO
IO13
MOSI
IO15
CS
J11 HSPI

ESP-WROOM-01/02

ADC_IN

J77 IO16

J7

R46 C10 R51 C11 R47

R55

R56

C22

RX/TX LED C14

L3

J4

INT MISO CLK
GND SD_D1 SD_D0 CLK

MOSI CS
CMD SD_D3 SD_D2

SDIO/SPI

C20

C19

J2

C15

RST

WAKE-UP

5V POWER and USB-UART

5V_SW
C24

C23 5V

5V_LED
R57 C12

U6
C13

D12

R59
R60

GND J64 GND EN_5V

I_3V3

J82

GND

3V3

RELAY
LED
R36
D1
J5

IO12 IO15 IO14 IO4 PWM:RGBW

J78 R77 R78 R79 R80

5V
5V

IO15

GND

IR_T R58 IO14
R71
Q4

IR_R R76 IO5 C15
U7 R42
R70

GND D15

OUT GND VDD

X2

X4

J8 J9

C16

ESP-LAUNCHER

TOUT(ADC)	GND
TMS(IO14)	CH_EN
TDI(IO12)	3V3
TCK(IO13)	RST
TDO(IO15)	XPD_DCDC(IO16)
SD_D2(IO9)	GPIO5
SD_D3(IO10)	GPIO4
SD_CMD(IO11)	U0TXD(IO1)
SD_CLK(IO6)	U0RXD(IO3)
SD_D0(IO7)	GND
SD_D1(IO8)	IO0
GND	IO2