

# Pinout

## ESP32-32D Pinout

Name	Pin	Pin Function	Component
<u>channel 1</u>	15		Rc receiver
<u>Channel 2</u>	2		Rc receiver
<u>Channel 3</u>	4		Rc receiver
<u>Channel 4</u>	16		Rc receiver
<u>Channel 5</u>	17		Rc receiver
<u>Channel 6</u>	5		Rc receiver
<u>TX</u>	TX0		PARTNER ESP
<u>RX</u>	RX0		PARTNER ESP
<u>SDA</u>	18		TOF FL Sensor
<u>SCL</u>	19		TOF FL Sensor
<u>SDA</u>	22		TOF FR Sensor
<u>SCL</u>	23		TOF FR Sensor
<u>SCL</u>	14		TOF BK Sensor
<u>SDA</u>	27		TOF BK Sensor
<u>Battery volt</u>	26		
<u>Untitled</u>	25		
<u>Untitled</u>	33		
<u>Untitled</u>	32		

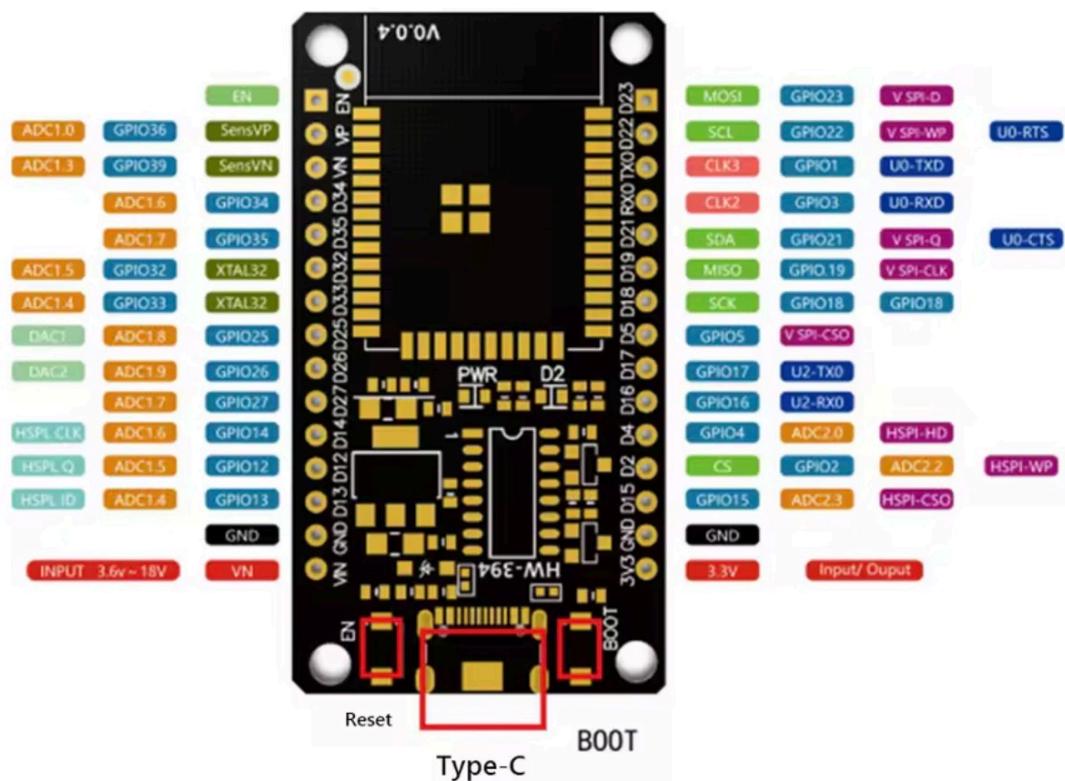
Name	Pin	Pin Function	Component
<u>Untitled</u>	35		
<u>Untitled</u>	34		

## Io expander

Name	Component	Pin
<u>AIN1</u>	FrontDriver	P0
<u>AIN2</u>	FrontDriver	P1
<u>BIN1</u>	FrontDriver	P2
<u>BIN2</u>	FrontDriver	P3
<u>AIN1</u>	Middle Driver	P4
<u>AIN2</u>	Middle Driver	P5
<u>BIN1</u>	Middle Driver	P6
<u>BIN2</u>	Middle Driver	P7
<u>AIN1</u>	Back Driver	P8
<u>AIN2</u>	Back Driver	P9
<u>BIN1</u>	Back Driver	P10
<u>BIN2</u>	Back Driver	P11
<u>SHUT</u>	TOF FL Sensor	P12
<u>SHUT</u>	TOF FL Sensor	P13
<u>SHUT</u>	TOF BK Sensor	P14

## Slave

Name	Pin	Component
<u>SDA</u>	9	PCF8575 IO Expander
<u>SCL</u>	10	PCF8575 IO Expander
<u>Rx</u>	21	Master connection
<u>TX</u>	20	Master connection
<u>SDA</u>	8	PCA9685PW 16 Channel
<u>SCL</u>	7	PCA9685PW 16 Channel
<u>PWMA</u>	6	Front Driver
<u>PWMB</u>	5	Front Driver
<u>PWMA</u>	1	Middle Driver
<u>PWMB</u>	2	Middle Driver
<u>PWMA</u>	3	Back Driver
<u>PWMB</u>	4	Back Driver



## PCA9685PW 16 Channel

Aa	Name	Pin	Component
<u>Red</u>	CH0		FLHeadLight
<u>Green</u>	CH1		FLHeadLight
<u>Blue</u>	CH2		FLHeadLight
<u>Red</u>	CH3		FRHeadLight

Name	Pin	Component
<u>Green</u>	CH4	FRHeadLight
<u>Blue</u>	CH5	FRHeadLight
<u>Red</u>	CH6	BLRevLight
<u>Green</u>	CH7	BLRevLight
<u>Blue</u>	CH8	BLRevLight
<u>Red</u>	CH9	BRRevLight
<u>Green</u>	CH10	BRRevLight
<u>Blue</u>	CH11	BRRevLight