

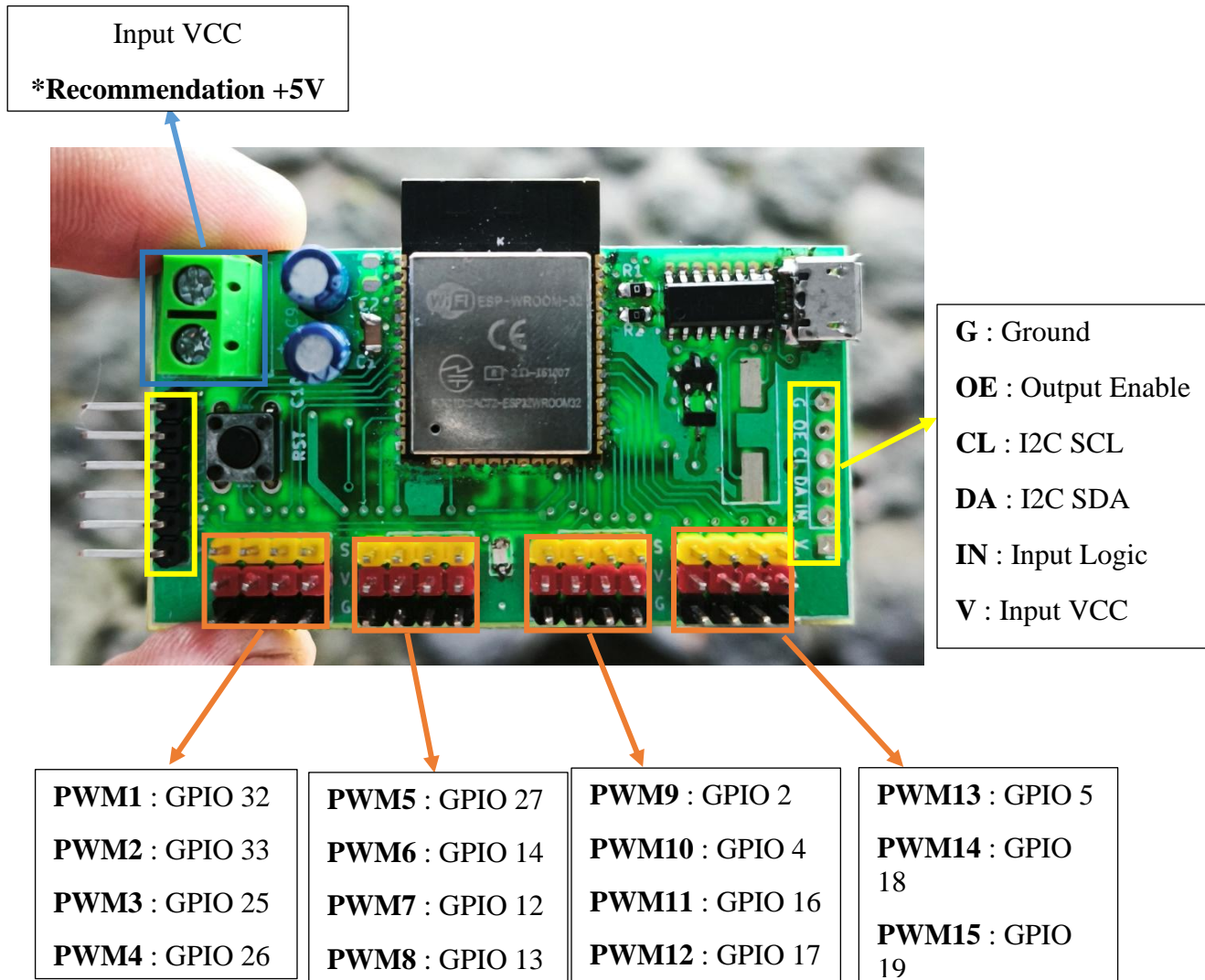
# **ESP32 Board With 16 Channel PWM Board**



**DIGITAL**

## GPIO Definition

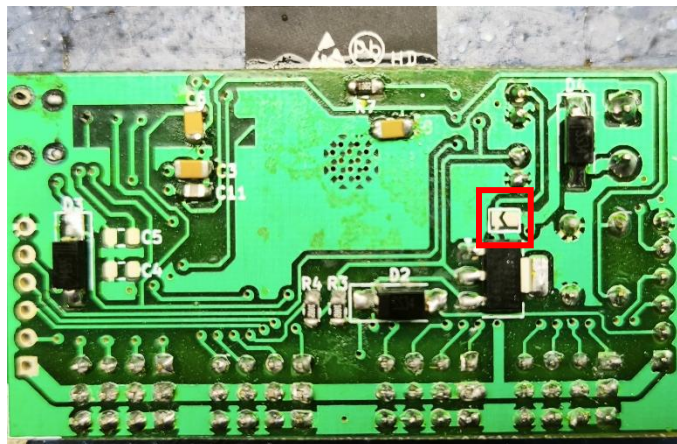
- Yellow Pin : Output Signal PWM
- Red Pin : Output Voltage Supply
- Black Pin : Ground



## Spesification

Symbol	Parameter	Min	Typ	Max	Unit
VCC	Supply Voltage for Output Pin	-	5	5.3	V
IN	Supply Voltage For Logic (Microcontroller)	3.3	-	5.3	V
$V_{IH}$	High Level Input Voltage	-	-	3.3	V
$V_{IL}$	Low Level Input Voltage	0	-	-	V
$V_{OH}$	High Level Output Voltage	-	3.3	-	V
$V_{OL}$	Low Level Output Voltage	0	-	-	V
Freq	Output Frequency Signal	-	-	40	Mhz

## Information



In the red box in the picture there is a jumper pad. connected if the **VCC Input** also activates the logic supply (microcontroller). if not connected then the supply will be connected **independently**.



## Example Code

```
#define PWM_1 32
#define PWM_2 33

#define FREQUENCY 5000
#define BIT_WIDTH 12

void setup(){
    Serial.begin(115200);
    ledcAttach(PWM_1, FREQUENCY, BIT_WIDTH);
    ledcAttach(PWM_2, FREQUENCY, BIT_WIDTH);
}

void loop(){
    ledcFade(PWM_1, 0, 4095, 2000);
    ledcFade(PWM_2, 0, 4095, 2000);
    delay(1000);
}
```

