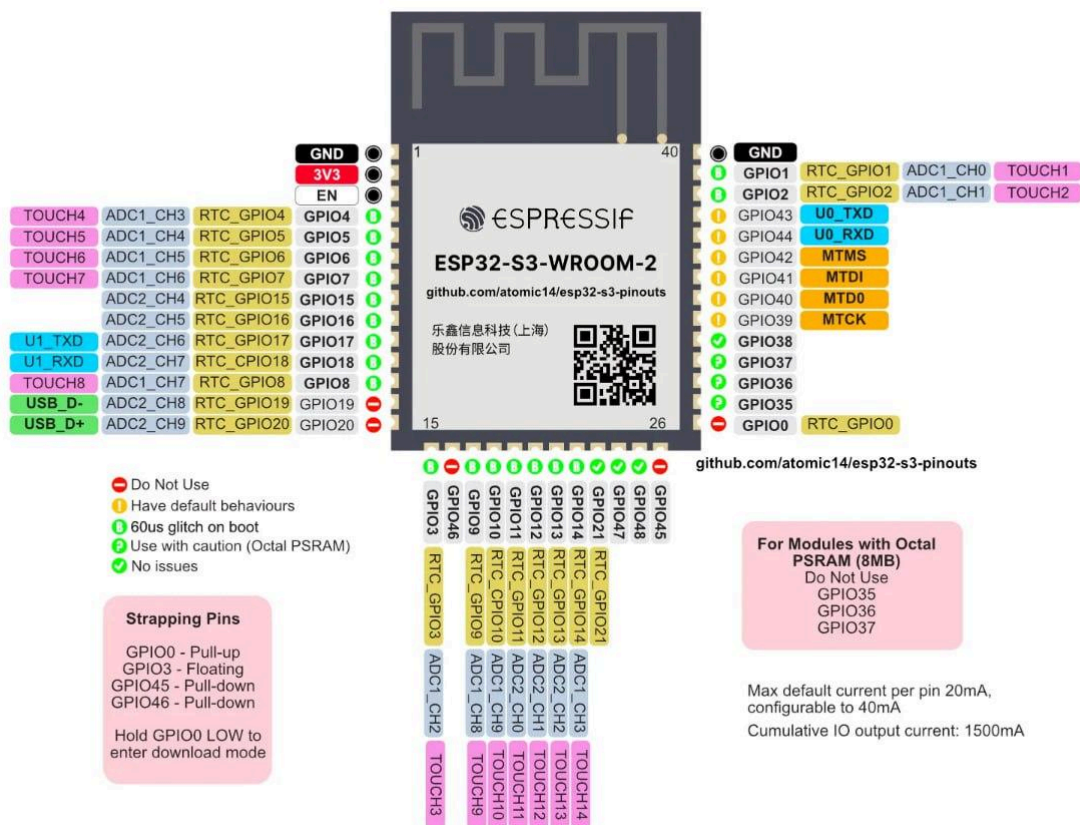


## Features:

- Microcontrolador ESP32-S3-WROOM
- 2 Canais PWM 705mA CC XL4001
- 4 Canais PWM 620mA CC XL4001
- 1 Canal PWM Dreno aberto 10A
- 1 Enable master p/ drivers
- 1 Sensor 1Wire Temperatura DS18B20
- LED Debug WS2812B + Saída 5V 600mA
  - Sem horário
  - Sem internet
  - Manual
  - Automático
- I2C 1
  - Display 3V3 (0x3C)
  - ADS1115 (0x48)
    - Tensão de entrada atenuado 11x
    - Nível de fluído pull-up 330
    - Alerta fluído baixo pull-up 2k2
    - Livre pull-up 2k2
  - SHT40 (0x44)
    - Temperatura  $\pm 0.2^{\circ}\text{C}$
    - Umidade  $\pm 1.8\%$
  - RTC (0x68)
- I2C 2
  - Display 5V (0xFF)



IO	Input	Output	Use	Notes
0	10k UP	OK	Prog	Boot mode, 60us glitch on boot
1	OK	OK		60us glitch on boot
2	OK	OK		60us glitch on boot
3	Floating	X	X	Strapping, 60us glitch on boot
4	OK	OK	CH1	60us glitch on boot
5	OK	OK	CH2	60us glitch on boot
6	OK	OK	CH3	60us glitch on boot
7	OK	OK	CH4	60us glitch on boot
8	OK	OK	I2C SCL 2	60us glitch on boot
9	OK	OK	I2C SDA 2	60us glitch on boot
10	OK	OK	I2C SCL 1	60us glitch on boot
11	OK	OK	I2C SDA 1	60us glitch on boot
12	OK	OK	Opto	60us glitch on boot
13	OK	OK	1Wire	60us glitch on boot
14	OK	OK	CH7	60us glitch on boot
15	OK	OK	CH5	60us glitch on boot
16	OK	OK	CH6	60us glitch on boot
17	OK	OK	WS2812B	60us glitch on boot
18	OK	OK	Free	60us glitch on boot
19	OK	OK	USB D-	Do not use as GPIO
20	OK	OK	USB D+	Do not use as GPIO
21	OK	OK	Relay 1	Stable GPIO
35	Floating	X	PSRAM	Embedded RAM
36	Floating	X	PSRAM	Embedded RAM
37	Floating	X	PSRAM	Embedded RAM
38	OK	OK	Enable Master	Stable GPIO
39	X	X	X	MTCK

40	X	X	X	MTDO
41	X	X	X	MTDI
42	X	X	X	MTMS
43	OK	X	TX	Reserved TX
44		OK	RX	Reserved RX
45	Floating	X	X	Strapping
46	Floating	X	X	Strapping
47	OK	OK	Free	Stable GPIO
48	OK	OK	Free	Stable GPIO