



SPECIFICATION

IEEE802.11 b/g/n 2.4GHZ 1T1R WiFi

ZJT-LM04-V1.0 (ESP8266)

Stamp Hole/Needle WiFi Module

Version 1.0



1. Product Brief

ESP8266 is a highly integrated chip designed for the needs of a new connected world. It offers a complete and self-contained Wi-Fi networking solution, allowing it to either host the application or to offload all Wi-Fi networking functions from another application processor.

ESP8266 has powerful on-board processing and storage capabilities that allow it to be integrated with the sensors and other application specific devices through its GPIOs with minimal development up-front and minimal loading during runtime.

2. Feature

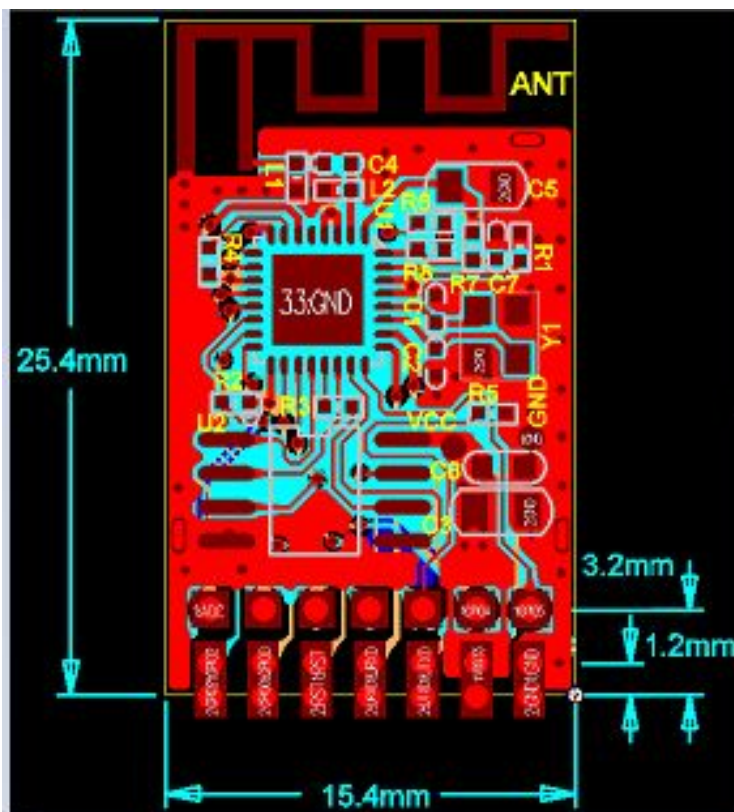
1. WIFI 802.11 b/g/n, include TCP/IP HTTP JSON protocol
- 2.three work mode: station、 soft-AP、 station + soft-AP
- 3.Support I2C/UART/PWM/GPIO, 12 number GPIO
- 4.PCB Antenna , IPEX socket
- 5.The built-in ADC module, can measure 0 - 1V analog voltage
- 6.built-in low power 32 bit CPU, provides RAM space, microchip programmer
- 7.Built-in AT command set,
- 8.standby power consumption is less than 1.0mW (DTIM3)

3.Electrical Characteristics

Module Type	Voltage	Current	Temperature
LM04	3.0--3.6V	Ideal=15mA,work=200mA	-20 -- 100 Degree

4.Size

Length	Width	High	PIN Dist
25.4 mm	15.4 mm	3.0 mm	2.0 mm



5.Module Pin define

PIN	Function	Description
1	GPIO5	GPIO5/PWM
2	GPIO4	GPIO4
3	GPIO15	MTDO/GPIO15/PWM/SPI SDO
4	GPIO14	MTMS/GPIO14/I2C_SCL/SPI SCS
5	GPIO13	GPIO13/PWM/SPI SCLK
6	GPIO12	MTDI/GPIO12/PWM/SPI SDI
7	ADC	Analog input 0-1V
8	GPIO2	GPIO2/I2C_SDA
9	GPIO0	GPIO0
10	RST	Deep sleep connect to GPIO16 in module
11	uRXD	Module serial Receive/GPIO3
12	uTXD	Module serial send/GPIO1
13	VDD33	Module VCC, 3.3V
14	GND	Module GND

Remark: 1. Double Needle all IO

2.Single Needle Serial Function

3.Single Stamp Hole Serial Function

4. Add GPIO2 and ADC PIN

5.Add steal shield prepare for FCC and CE approvals



6.Program Mode

GPIO0	GPIO2	GPIO15
Low voltage (1K Resistance connect to GND)	High Voltage	Low voltage (1K Resistance connect to GND)

7.Work Mode

GPIO0	GPIO2	GPIO15
High Voltage	High Voltage	Low voltage (1K Resistance connect to GND)