

# ESP8266 E803 Triple Mode Wifi Module Datasheet

Version	Issue date	Changes	Remark
0.1	2015/9/6	Initial Version	
0.2	2017/4/17	Update GPIO4, 5 pin assignment	

### IMPORTANT

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Signature:

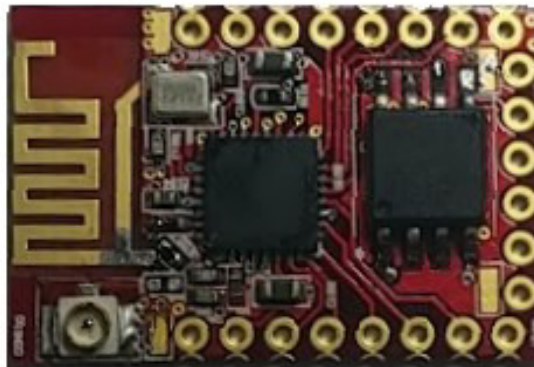
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# ESP8266 E803 Wifi Module Datasheet

## 1. Introduction

E801 Wifi module is small and low power consumption triple mode( STA, AP, STA+AP) Wifi module with following features :

- 802.11 b/g/n ( HT20 mode for 802.11n )
- 3.3V single power supply
- Low power consumption
- Small size 16\*24\*3.2 mm



This module can be configured as stamp type or Dip type / internal or external antenna to fit versatile applications.

## 2. Pin out/Dimension/Operation Modes

1	REST	12	MTMS
2	ADC	13	MTCK
3	CH_PD	14	SD_2
4	GPIO16	15	GND
5	GPIO14	16	GPIO15
6	GPIO12	17	GPIO2
7	GPIO13	18	GPIO0
8	VCC	19	GPIO4
9	MTDO	20	GPIO5
10	MTDI	21	RXD
11	SD_3	22	TXD

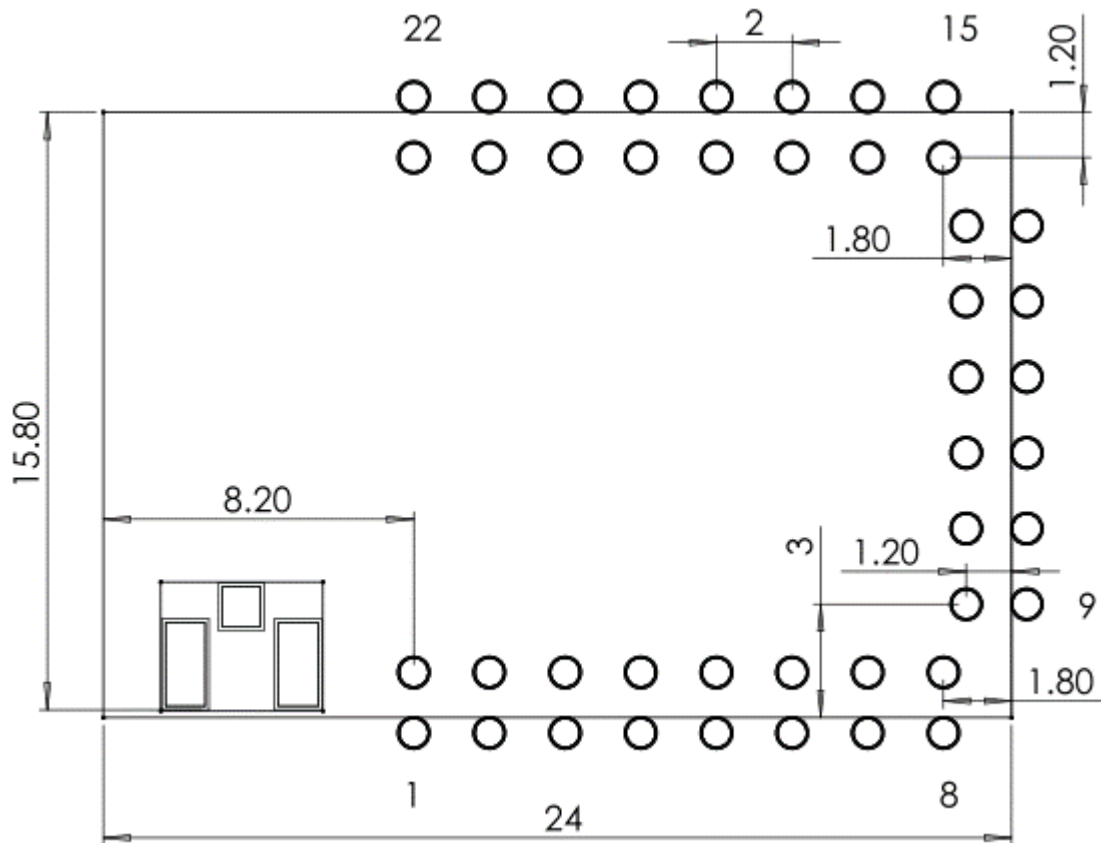
- **Dimension** : 16\*24\*3.2 mm
- Vcc : 3.3V typical.
- UART
  - ◆ TXD : UART tx signal
  - ◆ RXD : UART rx signal
  - ◆ baud rate : 115200 bps
  - ◆ 8 data bit, No parity and 1 stop bit

### 3. Technical Specifications

<b>VCC</b>	3.0~3.6V
<b>Average Working current</b>	80mA
<b>Maximum Working current</b>	200mA
<b>Working temperature</b>	-40 ~ +80 deg. C
<b>Tx power</b>	
<b>11b</b>	20
<b>11g</b>	17
<b>11n</b>	14
<b>Receiver sensitivity</b>	
<b>11b</b>	-91dBm
<b>11g</b>	-75dBm
<b>11n</b>	-71dBm
<b>Operation Mode</b>	
	Station
	SoftAP
	Station + SoftAP
<b>Security Mode</b>	WPA/WPA2
<b>Encryption</b>	WEP/AES/TKIP
<b>GPIO max in/out current</b>	12mA

### 4. Detailed dimension :

Detailed dimension is as following :



### 5. Application Notes about GPIO

Because the states of following GPIOs are used module boot up configuration. They should be kept in associated state during module power on :

GPIO	State
TXD	High
GPIO0	High
GPIO2	High
MTDO	Low