

## Seeedstudio ESP8285 Wi-Fi SoC Module

SKU 102990965







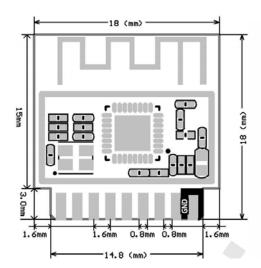
## Description

ESP-01M can be widely used in various occasions for networking, home automation, industrial wireless control, baby monitors, wearable electronics, infinite position sensing device, wireless positioning system, signal and other networking applications, networking applications is the ideal solution.

ESP-01M uses the DIP plug-in package, the unique design, so that it can be flexible docking to existing products, especially suitable for automation, large-scale, modern production of low cost, convenient application in various networking hardware terminal applications.

## **Features**

- The smallest 802.11b/g/n Wi-Fi SoC module
- Uses low power 32bit CPU and compatible with application processor
- Main frequency up to 160MHz
- Built in 10Bit high precision ADC
- Support UART/GPIO/PWM/ADC interface
- Integrate Wi-Fi MAC/BB/RF/PA/LNA
- Support multiple sleep modes
- Standby power consumption as low as 1.0mW
- Embedded Lwip protocol stack
- Support STA/AP/STA+AP work model
- Support Smart Config/AirKiss
- Series Rate up to 4Mbps
- Universal AT instruction
- Support serial local upgrade and remote firmware upgrade
- Small size 18\*18\*2.8mm





## **Technical Details**

Weight	G.W 4g N.W 1.5g
Battery	Exclude
Support Interface	UART/GPIO/ADC/PWM
SPI Flash	1MB
I/O Put	11
Series Rate	Support 300~4608000 bps, default 115200 bps
RF Range	2412~2484MHz
Antenna	Embedded PCB Antenna, gain 2dBi

Transmitted power		
802.11b	16±2dBm(@11Mbps)	
802.11g	14±2dBm(@54Mbps)	
802.11n	13±2dBm(@HT20, MCS7)	
Receiver sensitivity		
CCK, 1 Mbps	-90dBm	
CCK, 11 Mbps	-85dBm	
6 Mbps (1/2 BPSK)	-88dBm	

54 Mbps (3/4 64-QAM)	-70dBm	
HT20, MCS7 (65 Mbps, 72 Mbps)	-67dBm	
Power waste		
Continue sending=>average value	~71mA, Max: 300mA	
Modem Sleep	~20mA	
Light Sleep	~2mA	
Deep Sleep	~0.02mA	
Security	WEP/WPA-PSK/WPA2-PSK	

Power Supply Range	
Voltage	3.0V~3.6V
Current	>300mA
Working Temperature	-20°C~85°C
Storage environment	-40°C~90°C,<90%RH
Part List	

1

ESP 01M Module