

Seeedstudio ESP8285 Wi-Fi SoC Module

SKU 102990965



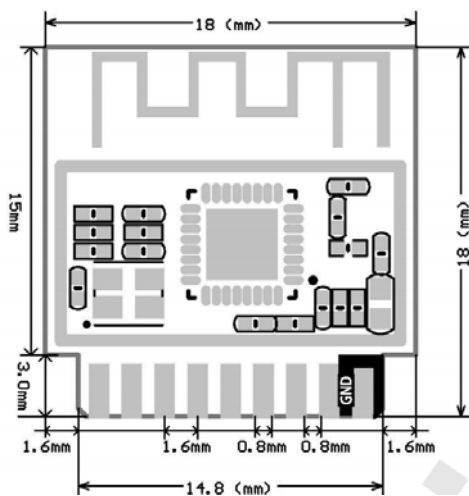
Description

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

ESP 01M Module	1
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