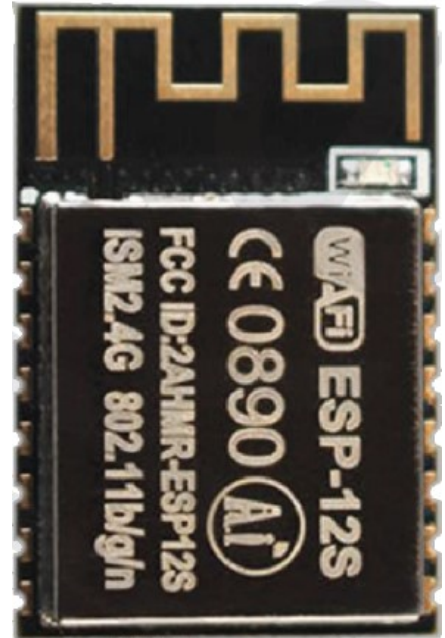




Overview

- ESP-12S has a highly competitive package size and ultra-low power technology.

ESP-12S can be widely used in a variety of networking, for home automation, industrial wireless control, baby monitors, wearable electronic products, wireless location sensing devices, wireless positioning system signals and other networking applications.

ESP-12S is packaged in SMD, through the standard SMT equipment to achieve rapid production of products, to provide customers with high reliability of the connection, especially for automation, large-scale, low-cost modern production methods. It's suitable for all kinds of Internet of Things hardware terminal occasions.

Product Specifications

Module Model	ESP-12
Package	SMD-16
Size	24 x 16 x 3 (+/- 0.2)mm
SPI Flash	Default 32Mbit
Interface	UART/ HSPI/ IIC/ PWM/ ADC
IO Port	9
UART Baudrate	Support 300– 4608000 bps, Default 115200 bps
Frequency Range	2412– 2484MHz
Antenna	PCB antenna, 2 dBi
Transmit Power	802.11b: 16 +/- dBm (@11Mbps) 802.11g: 14 +/-2 dBm (@54Mbps) 802.11n: 13 +/- dBm (@HT20, MCS7)
Receiving Sensitivity	CCK, 1 Mbps: -90dBm CCK, 11Mbps: -85dBm 6 Mbps (1/2 BPSK): -88dB 54 Mbps (3/4 64-QAM): -70dBm
Power (Typical Values)	Continuous Transmission=> Avg: - 71mA, Peak: 300mA Modem Sleep: -20mA Light Sleep: -2mA Deep Sleep: -0.02mA
Security	WEP/WPA-PSK/WPA2-PSK
Power Supply	Voltage 3.0V– 3.6V, Current> 300mA
Operating Temperature	-20°C– 85°C
Storage Environment	-40°C– 90°C, <90%RH
Weight	0.45g
Certification	FCC. CE