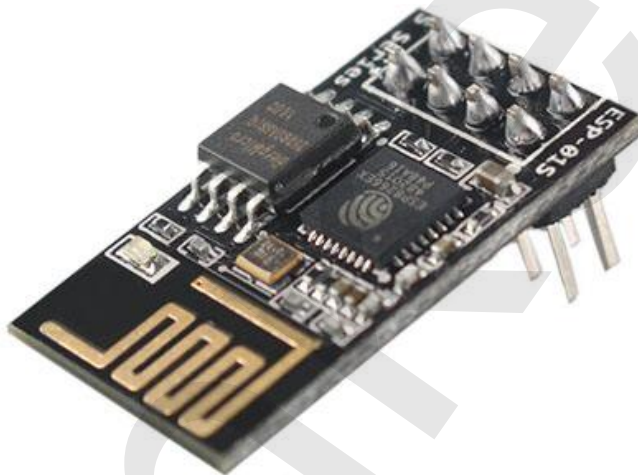
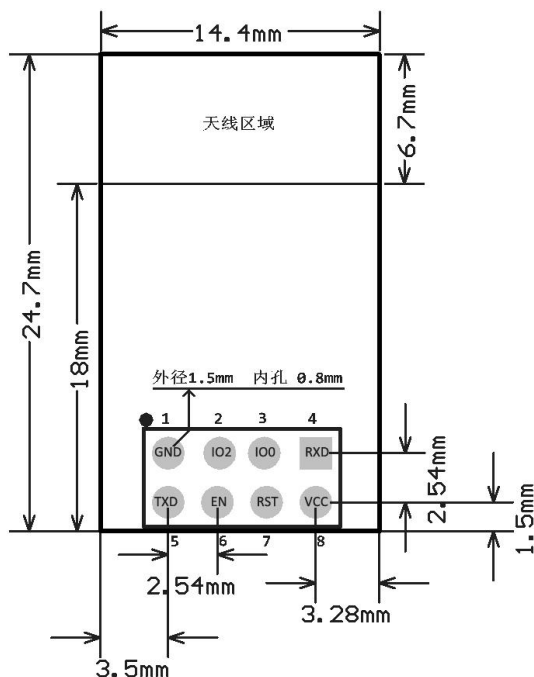


ESP-01S 802.11 b/g/n Wi-Fi Module



Features

- The smallest 802.11b/g/n Wi-Fi SOC module
- Low power 32-bit CPU, can also serve as the application processor
- Up to 160MHz clock speed
- Supports UART/GPIO
- DIP-8 package for easy welding
- Integrated Wi-Fi MAC/BB/RF/PA/LNA
- Deep sleep current as low as 20uA
- Embedded lwIP protocol stack
- Supports STA/AP/STA + AP operation mode
- Support Smart Config/AirKiss technology
- UART baudrate up to 4Mbps
- General AT commands can be used quickly
- Supports remote firmware upgrade (FOTA)

Overview

ESP-01S has a highly competitive package size and ultra-low power technology.

ESP-01S 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-01S in DIP package, unique plug-in package design, it can be flexible access to existing products, especially for automation, large-scale, low-cost modern production methods, easy to apply to a variety of things networking hardware terminal occasions.

Product Specifications

Module Model	ESP-01S
Package	DIP-8
Size	24.7*14.4*11.0 (±0.2) mm
SPI Flash	Default 8Mbit
Interface	UART/GPIO
IO Port	2
UART Baudrate	Support 300 ~ 4608000 bps , Default 115200 bps
Frequency Range	2412 ~ 2484MHz
Antenna	PCB antenna, 2 dBi
Secondary Development	Support
Transmit Power	802.11b: 16±2 dBm (@11Mbps) 802.11g: 14±2 dBm (@54Mbps) 802.11n: 13±2 dBm (@HT20, MCS7)
Receiving 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, 72.2 Mbps): -67dBm
Power (Typical Values)	Continuous Transmission => Average: ~ 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	0.65g

Contact US

ShenZhen Ai-Thinker Technology Co., Ltd

Address: 6/F, Block C2, Huafeng Industrial Park, Hangcheng Road, Bao'an Road, Baoan District, Shenzhen ,China

Website: www.ai-thinker.com

Tel: 400-855-5368

E-mail: support@aithinker.com