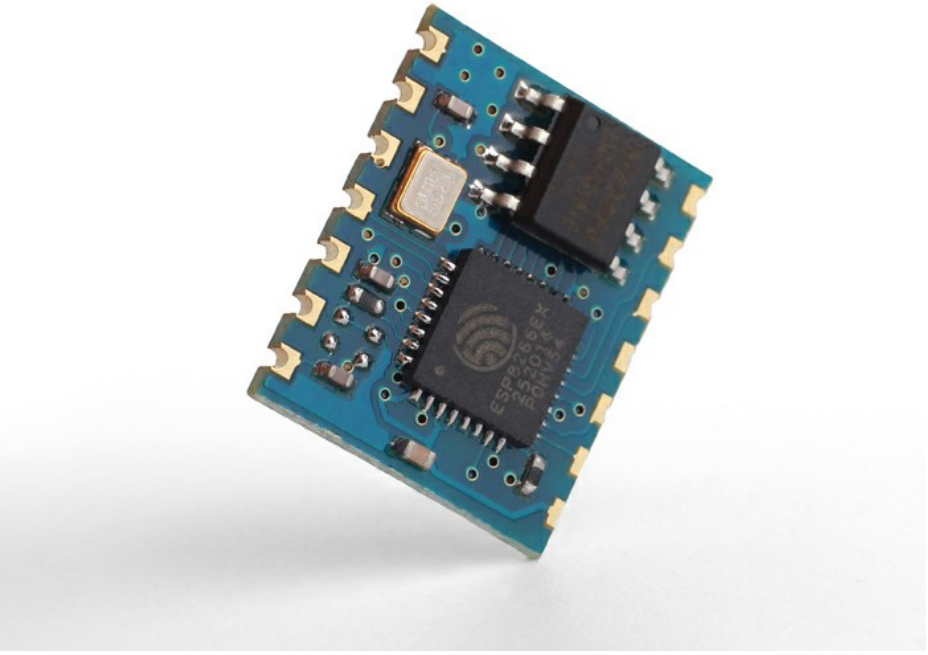

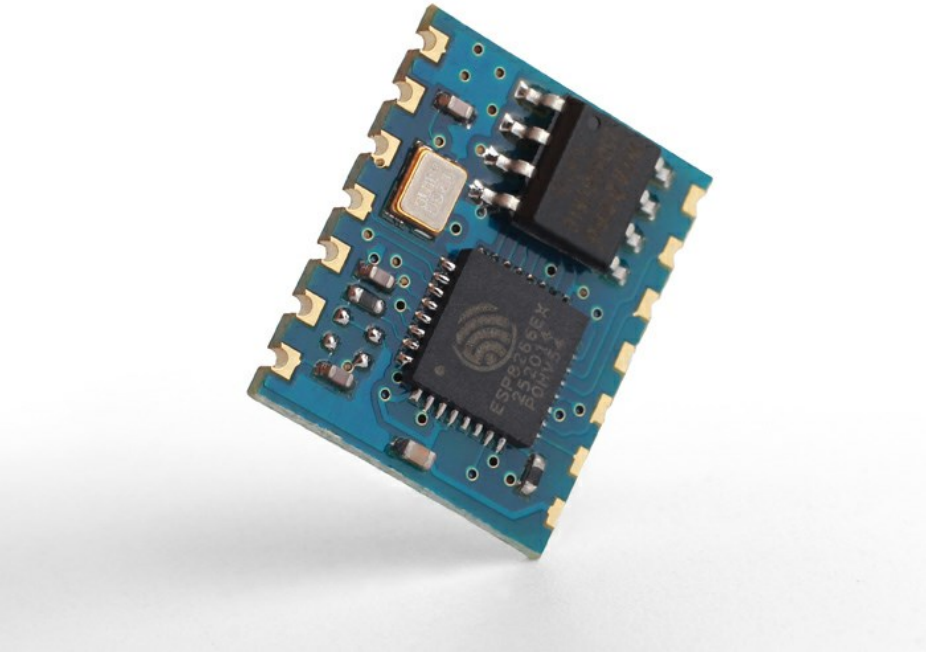

WiFi Serial Transceiver Module w& ESP8266-Medium

SKU 113990085

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Description

We release a tutorial for ESP8266.

This is SMD WiFi serial transceiver module, based on ESP8266 SoC.

The SOC has Integrated TCP/IP protocol stack

We have a set of documents in Chinese. We are preparing tutorials and demo software to showcase utility of this module.

Please buy this module only when you understand the existing documents.

ESP8266 is a highly integrated chip designed for the needs of a new connected world. It offers a complete and self-contained Wi-Fi networking solution, allowing it to either host the application or to offload all Wi-Fi networking functions from another application processor.

ge capabilities that allow it to be integrated with the sensors and other application specific devices

through its GPIOs with minimal development up-front and minimal loading during runtime. Its high degree of on-chip integration allows for minimal external circuitry, and the entire solution, including front-end module, is designed to occupy minimal PCB area.

Features

Corresponding Interface:

SDIO 2.0, SPI, UART

32-pin QFN package

Integrated RF switch, balun, 24dBm PA, DCXO, and PMU

Integrated RISC processor, on-chip memory and external memory interfaces

Integrated MAC/baseband processors

Quality of Service management

I2S interface for high fidelity audio applications

On-chip low-dropout linear regulators for all internal supplies

Proprietary spurious-free clock generation architecture

Integrated WEP, TKIP, AES, and WAPI engines

Specification

802.11 b/g/n

Wi-Fi Direct (P2P), soft-AP

Integrated TCP/IP protocol stack

Integrated TR switch, balun, LNA, power amplifier and matching network

Integrated PLLs, regulators, DCXO and power management units

+19.5dBm output power in 802.11b mode

Power down leakage current of <10uA

Integrated low power 32-bit CPU could be used as application processor

SDIO 1.1/2.0, SPI, UART

STBC, 1×1 MIMO, 2×1 MIMO

A-MPDU & A-MSDU aggregation & 0.4ms guard interval

Wake up and transmit packets in < 2ms

Standby power consumption of < 1.0mW (DTIM3)

Technical Details

Dimensions	55mm x 55mm x 2mm
Weight	G.W 1.20g
Battery	Exclude

ECCN/HTS

ECCN	Not Available
HSCODE	8517709000

Questions and Answers

Have a question about this? Ask people who

0 Is this ESP- what is it difference with this item? https://www.seeedstudio.com/WiFi-Serial-Transceiver-Module-w%26-ESP8266-Small-p-2082.html

mahmoos313 on May 21,2017 Reply upvote (0)

same product with different size

Seeed Techsupport Team on Feb 06,2018 16:22 PM Reply upvote (0)

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