

**WiFi Serial Transceiver  
Module w/ ESP8266 - 1MB  
Flash**

SKU: 317060016

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We release a tutorial for ESP8266. ([http://www.seeedstudio.com/wiki/WiFi\\_Serial\\_Transceiver\\_Module](http://www.seeedstudio.com/wiki/WiFi_Serial_Transceiver_Module))

This is 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.

ESP8266 has powerful on-board processing and storage 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.

#### **Corresponding Interface:**

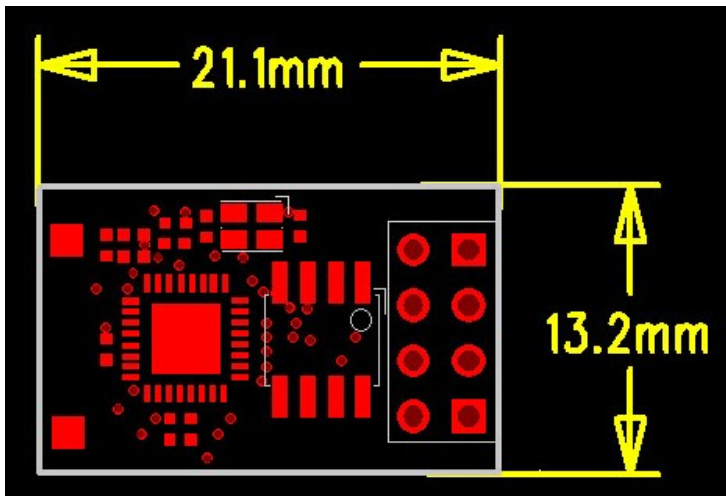
- Upgrade 1M Flash
- SDIO 2.0, SPI, UART
- 32-pin QFN package
- Integrated RF switch, balun, 24dBm PA, DCXO, and PMU
- Integrated RISC processor, on-chip memory and external memory interfaces
- Integrated MAC/baseband processors
- Quality of Service management
- I2S interface for high fidelity audio 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:**

- 1M Flash
- 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)

#### **Part List:**

1 x Esp8266 module



#### Resource

Catalog of ESP8266 Documents (<http://bbs.espressif.com/viewtopic.php?f=21&t=225>)

#### Documents

Please visit our wiki ([http://www.seeedstudio.com/wiki/Grove\\_-\\_Starter\\_Kit\\_v3](http://www.seeedstudio.com/wiki/Grove_-_Starter_Kit_v3)) page for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our forum (<http://www.seeedstudio.com/forum/>)

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