



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

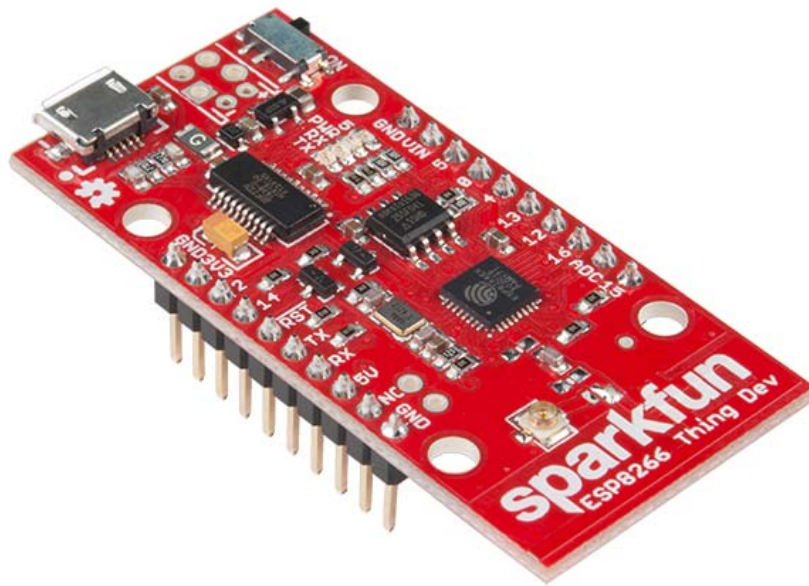
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SparkFun ESP8266 Thing - Dev Board (with Headers)

WRL-13804 RoHS



Description: This is the SparkFun ESP8266 Thing Dev Board — a development board that has been solely designed around the ESP8266, with an integrated FTDI USB-to-Serial chip. The ESP8266 is a cost-effective and very capable WiFi-enabled microcontroller. Like any microcontroller, it can be programmed to blink LEDs, trigger relays, monitor sensors or automate coffee makers. With an integrated WiFi controller, the ESP8266 is a one-stop shop for almost any internet-connected project. To top it all off, the ESP8266 is incredibly easy to use; firmware can be developed in Arduino and uploaded over a simple serial interface. The ESP8266 Thing Development Board breaks out all of the module's pins with pre-soldered headers, and the USB-to-serial converter means you don't need any peripheral components to program the chip. Just plug in a USB cable, download the Arduino board definitions, and start IoT-ing.

Why the name? We lovingly call it the “Thing” due to it being the perfect foundation for your Internet of Things (IoT) project. The Thing does everything from turning on an LED to posting data with phant.io, and can be programmed just like any microcontroller. You can even program the Thing through the Arduino IDE by installing the ESP8266 Arduino add-on.

The ESP8266 Thing Development Board is a relatively simple board. The pins are broken out to two parallel, breadboard-compatible rows. The USB connector sits next to an optional power supply

input, and an ON/OFF switch — controlling power to the ESP8266 — sits next to that. And LEDs toward the inside of the board indicate power, charge and status of the IC. The ESP8266's maximum voltage is 3.6V, so the Thing has an onboard 3.3V regulator to deliver a safe, consistent voltage to the IC. That means the ESP8266's I/O pins also run at 3.3V; you'll need to level shift any 5V signals running into the IC. If your project requires a power source other than USB, the Thing Dev Board includes footprints for a 2-pin JST, 2-pin 3.5mm screw terminal, or a simple 0.1"-pitch 2-pin header. Unlike the original ESP8266 Thing, the ESP8266 Thing Dev Board does not have a built-in LiPo charger.

The Thing Dev Board even includes a PCB trace antenna as a default WiFi antenna. It's cost-effective and works really well! If you need to connect a more sensitive antenna, or need to route outside an enclosure, a U.FL connector is also available on the board. Some soldering will be required to get the U.FL connector functioning, but instructions can be found in the Hookup Guide we have written for the dev board.

Note: We've provided a few Example Sketches to experiment with on your SparkFun ESP8266 Thing Development Board. These sketches can be found in the Hookup Guide in the *Documents* section below!

Features:

- All module pins broken out
- Onboard FTDI USB-to-Serial
- 802.11 b/g/n
- WiFi 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
- Integrated low-power 32-bit CPU could be used as application processor
- +19.5dBm output power in 802.11b mode
- Pre-Soldered Headers

