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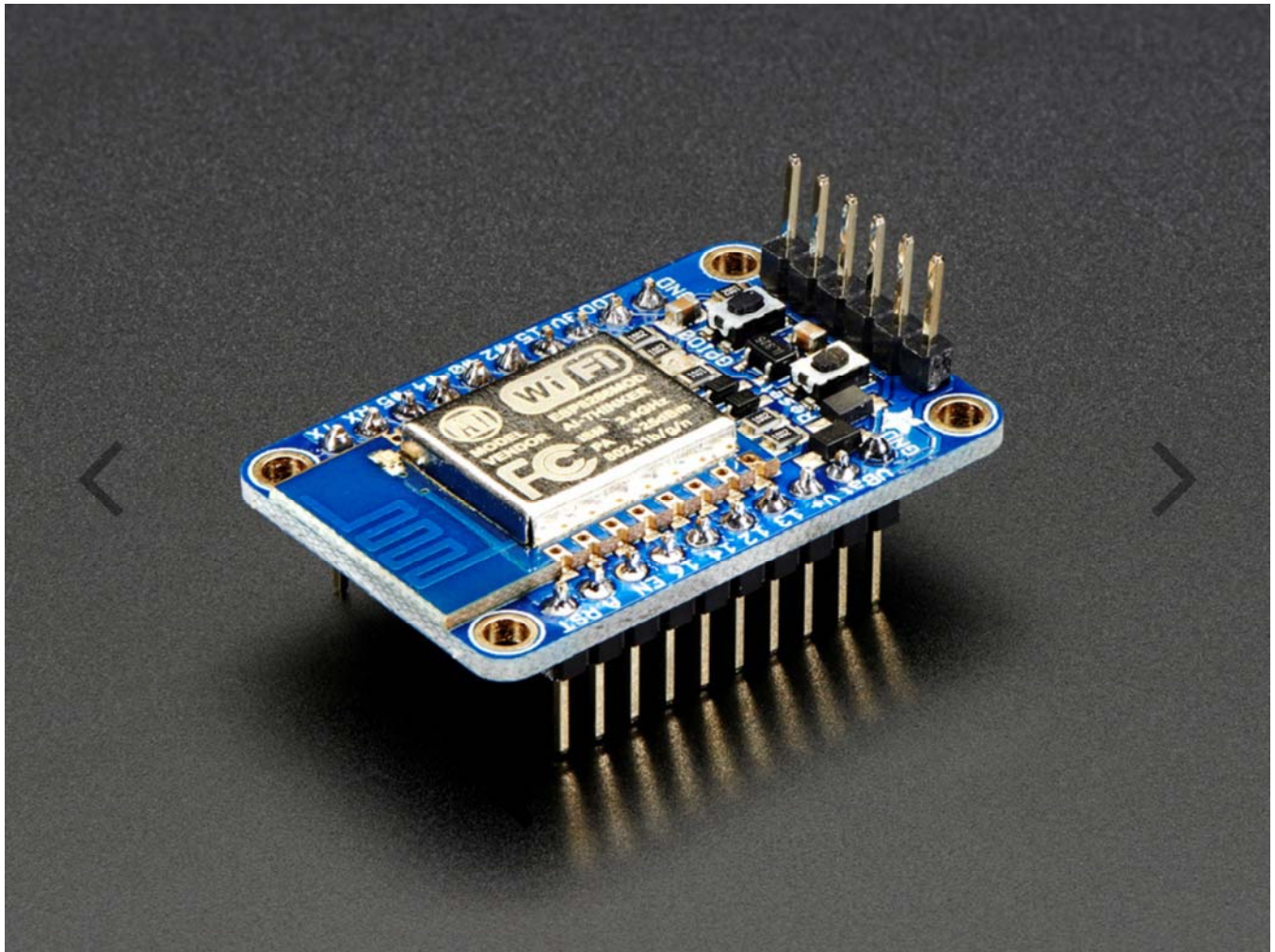
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BOARDS / BREAKOUT BOARDS

Adafruit HUZDAH ESP8266 Breakout

PRODUCT ID: 2471



DESCRIPTION

Add Internet to your next project with an adorable, bite-sized WiFi microcontroller, at a price you like! The ESP8266 processor from Espressif is an 80 MHz microcontroller with a full WiFi front-end (both as client and access point) and TCP/IP stack with DNS support as well. While this chip has been very popular, its also been very difficult to use. Most of the low cost modules are not breadboard friendly, don't have an onboard 500mA 3.3V regulator or level shifting, and aren't CE or FCC emitter certified....UNTIL NOW!

The Adafruit HUZZAH ESP8266 breakout is what we designed to make working with this chip super easy and a lot of fun. We took a certified module with an onboard antenna, and plenty of pins, and soldered it onto our designed breakout PCBs. We added in:

- Reset button,
- User button that can also put the chip into bootloading mode,
- Red LED you can blink,
- Level shifting on the UART and reset pin,
- 3.3V out, 500mA regulator (you'll want to assume the ESP8266 can draw up to 250mA so budget accordingly)
- Two diode-protected power inputs (one for a USB cable, another for a battery)

Two parallel, breadboard-friendly breakouts on either side give you access to:

- 1 x Analog input (1.8V max)
- 9 x GPIO (3.3V logic), which can also be used for I2C or SPI
- 2 x UART pins
- 2 x 3-12V power inputs, reset, enable, LDO-disable, 3.3V output

One breakout at the end has an "FTDI" pinout so you can plug in an FTDI or console cable to upload software and read/write debugging information via the UART. When you're done with your coding, remove the cable, and this little module can be embedded into your project box.

Each module comes pre-loaded with NodeMCU's Lua interpreter (NodeMCU 0.9.5 build 20150318 / Lua 5.1.4 to be specific), you can run commands, and 'save' Lua programs directly to the module's Flash using a USB-Serial converter cable. But, if you'd like, you can skip Lua and go direct to using the Arduino IDE. Once you download the ESP8266 core, you can treat it just like a microcontroller+WiFi board, no other processors needed!

Each order comes with one assembled and tested HUZZAH ESP8266 breakout board, and a stick of 0.1" header that you can solder on and plug the breakout into a breadboard. A soldering iron and solder are required for that, and aren't included. Solderless breadboard also not included. You'll really want a USB-serial cable such as a USB console cable, FTDI Friend, or FTDI cable (3 or 5V power/logic is fine) to upload software to the HUZZAH ESP8266! Our essential tutorial has wiring, pinouts, assembly, downloads, and more!

HUZZAH