


Assembled Feather HUZZAH w/ ESP8266 WiFi With Stacking Headers

PRODUCT ID: 3213

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Stacking Headers - Solder-free 

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1

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DESCRIPTION

Feather is the new development board from Adafruit, and like its namesake it is thin, light, and lets you fly! We designed Feather to be a new standard for portable microcontroller cores.

This is the **Adafruit Feather HUZZAH ESP8266** - our take on an 'all-in-one' ESP8266 WiFi development board with built in USB and battery charging. Its an ESP8266 WiFi module with all the extras you need, ready to rock! [We have other boards in the Feather family, check'em out here.](#)

At the Feather HUZZAH's heart is an ESP8266 WiFi microcontroller clocked at 80 MHz and at 3.3V logic. This microcontroller contains a Tensilica chip core as well as a full WiFi stack. You can program the microcontroller using the Arduino IDE for an easy-to-run Internet of Things core. We wired up a USB-Serial chip that an upload code at a blistering 921600 baud for fast development time. It also has auto-reset so no noodling with pins and reset button pressings.

To make it easy to use for portable projects, we added a connector for any of our 3.7V Lithium polymer batteries and built in battery charging. You don't need a battery, it will run just fine straight from the micro USB connector. But, if you do have a battery, you can take it on the go, then plug in the USB to recharge. The Feather will automatically switch over to USB power when its available.

Here's some handy specs!

- Measures 2.0" x 0.9" x 0.28" (51mm x 23mm x 8mm) without headers soldered in
- Light as a (large?) feather - 9.7 grams
- ESP8266 @ 80MHz with 3.3V logic/power
- 4MB of FLASH (32 MBit)
- Built in WiFi 802.11 b/g/n

[DESCRIPTION](#)[TECHNICAL DETAILS](#)[LEARN](#)

- 3.3V regulator with 500mA peak current output
- CP2104 USB-Serial converter onboard with 921600 max baudrate for uploading
- Auto-reset support for getting into bootload mode before firmware upload
- 9 x GPIO pins - can also be used as I2C and SPI
- 1 x analog inputs 1.0V max
- Built in 100mA LiPoly charger with charging status indicator LED, can also cut a trace to disable the charger
- Pin #0 red LED for general purpose blinking. Pin #2 blue LED for bootloading debug & general purpose blinking
- Power/enable pin
- 4 mounting holes
- Reset button

Comes fully assembled and tested, with a USB interface that lets you quickly use it with the Arduino IDE or NodeMCU Lua. (It comes preprogrammed with the Lua interpreter). This version comes **pre-soldered with Feather stacking headers!** [Click here for the un-soldered version.](#)

Lipoly battery and USB cable not included (but we do have lots of options in the shop if you'd like!)

[Check out our tutorial for all sorts of details, including schematics, files, IDE instructions, power management and more!](#)



TECHNICAL DETAILS

- 23mm x 51mm x 19mm / 0.9" x 2" x 0.74"
- Weight: 9.4

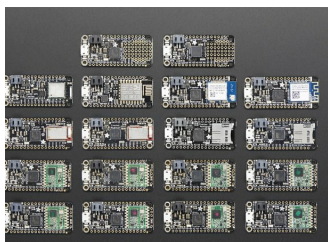


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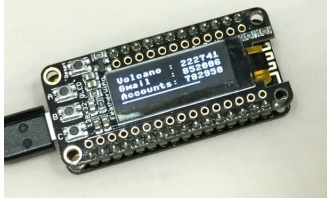
[3D Printed Case for Adafruit Feather](#)

A Multipurpose Enclosure for Adafruit Feather



[Introducing Adafruit Feather](#)

Boards of a Feather flock together!



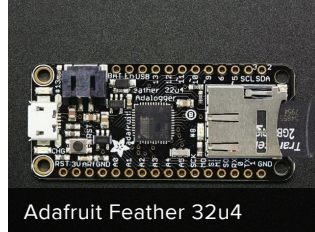
MAY WE ALSO SUGGEST...



Assembled Adafruit Feather



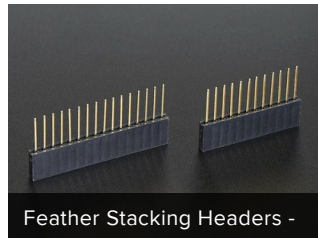
Huzzah! Adafruit.io Internet



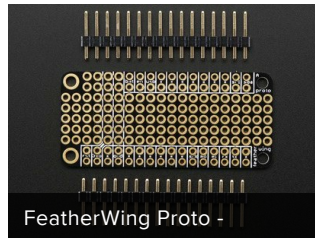
Adafruit Feather 32u4



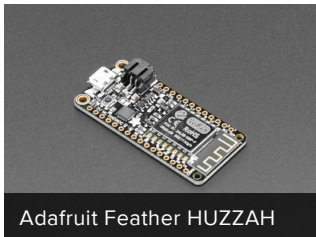
Adafruit Feather 32u4



Feather Stacking Headers -



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Adafruit Feather HUZZAH



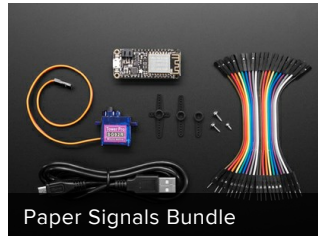
Adafruit Feather 32u4 Basic



Adafruit HUZZAH ESP8266



ESP8266 SMT Module



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