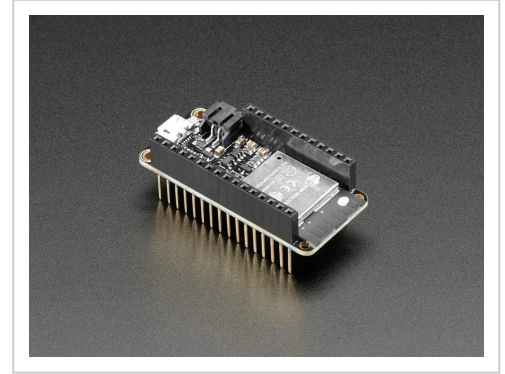


# Adafruit HUZZAH32 ESP32 Feather Board, mounted with stacking headers



The HUZZAH32 is an ESP32-based Feather made with the official WROOM32 module. It has everything Feather is all about: built-in USB-to-serial converter, automatic bootloader reset, lithium-ion/polymer charger and pretty much everything you need

**Product number** ADA3619

**Weight** 0.01kg

## Product description

The **HUZZAH32** is an ESP32-based Feather made with the official WROOM32 module. It has everything that makes Feather: built-in USB-to-serial converter, automatic bootloader reset, lithium-ion/polymer charger and pretty much all the GPIOs so you can use it with any FeatherWing. And this version has the headers already soldered in. This version is already assembled with stacking headers.

The module embedded at the end of this Feather contains a dual-core ESP32 chip, 4MB of SPI flash, a tuned antenna and all the passive components you need to take advantage of this powerful new processor. The ESP32 has both WLAN and Bluetooth Classic/LE support. This means it's perfect for pretty much any wireless or internet connected project.

The ESP32 is a perfect upgrade from the ESP8266 that was so popular. In comparison, the ESP32 has many more GPIO, many analogue inputs, two analogue outputs, several additional peripherals (such as a spare UART), two cores so you don't have to give way to the WiFi manager, a much faster processor, etc.! etc! We think that as the ESP32 becomes more common, more and more people will switch exclusively to this chip, as it is so feature rich.

Here are [specifications from Espressif about the ESP32](#):

- 240 MHz dual core Tensilica LX6 microcontroller with 600 DMIPS
- Integrated 520 KB SRAM
- Integrated 802.11b/g/n HT40 Wi-Fi transceiver, baseband, stack and LWIP
- Integrated dual mode Bluetooth (classic and BLE)
- 4 MByte Flash included on the WROOM32 module
- Built-in PCB antenna
- Ultra-low noise analogue amplifier
- Hall sensor
- 10x capacitive touch interface
- 32 kHz crystal oscillator
- 3 x UARTs (only two are configured by default in the Feather Arduino IDE support, one UART is used for bootloading/debug)
- 3 x SPI (only one is configured by default in Feather Arduino IDE support)
- 2 x I2C (only one is configured in Feather Arduino IDE support by default)
- 12 x ADC input channels
- 2 x I2S audio
- 2 x DAC
- PWM/timer input/output available on each GPIO pin
- OpenOCD debug interface with 32 kB TRAX buffer
- SDIO Master/Slave 50 MHz
- SD card interface support

Comes fully assembled and tested, with a USB interface that lets you quickly use it with the Arduino IDE or the low-level ESP32 IDF.

**Lipoly battery and USB cable not included**

Check out the Adafruit [tutorial](#) for documentation, pinouts, schematics, fritzing objects, Arduino setup and more!

## Product properties

<b>Gross Weight (kg)</b>	0.010
<b>Country of Origin</b>	USA
<b>Brand</b>	Adafruit
<b>Product ID</b>	ADA3619
<b>Manufacturer ID</b>	3619
<b>EAN</b>	4060137061714
<b>Zolltarifnummer</b>	85423119

## More images

