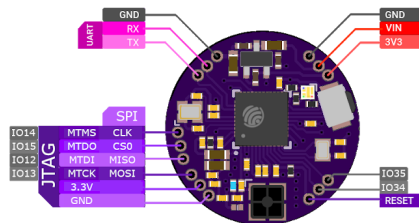


FemtoBeacon ESP32 (ESP32-D2WD)

June 01, 2019

Product Overview

This is an ESP32 based WiFi/Bluetooth coin! It operates at 3.3V, and uses the ESP32-D2WD chipset (Internal 2MiB flash, dual core). It is the size of a US Dime coin (9mm radius) and can fit just about anywhere! SPI/JTAG pins are available.



Set Up

You will need a 3.3V USB-to-UART adapter (not included). Connect the 3.3V pin to the adapter's 3.3V power supply, GND to ground, coin RX to the adapter's TX, and coin TX to the adapter's RX.

Voltage Pins

Please note, the 3V3 pin is connected to the LDO regulator output, and is meant to supply 3.3V. The VIN pin can take in 5.5V max and power the 3.3V line.

Arduino IDE Usage

If you are using the Arduino IDE, please use the latest Arduino IDE release. You will need to wire up your coin to the FTDI-to-UART adapter. Press and hold the “Boot” button before powering the coin to enter sketch upload mode.

To work with the FemtoBeacon ESP32 using the Arduino IDE, do the following:

- Arduino IDE: Add this to Preferences > Additional Boards Manager URL:
https://dl.espressif.com/dl/package_esp32_index.json
- Arduino IDE > Boards > Boards Manager: Install the ESP32 board package.
- Arduino IDE > Boards: Set board to "ESP32 Dev Module"
- Arduino IDE > Flash Size: Set Flash Size to "2MB"

Now you can select your port, and upload your sketch. Power cycle the coin (don't hold the Boot button) and your sketch will execute.

