Installing Micropython Firmware on ESP8266

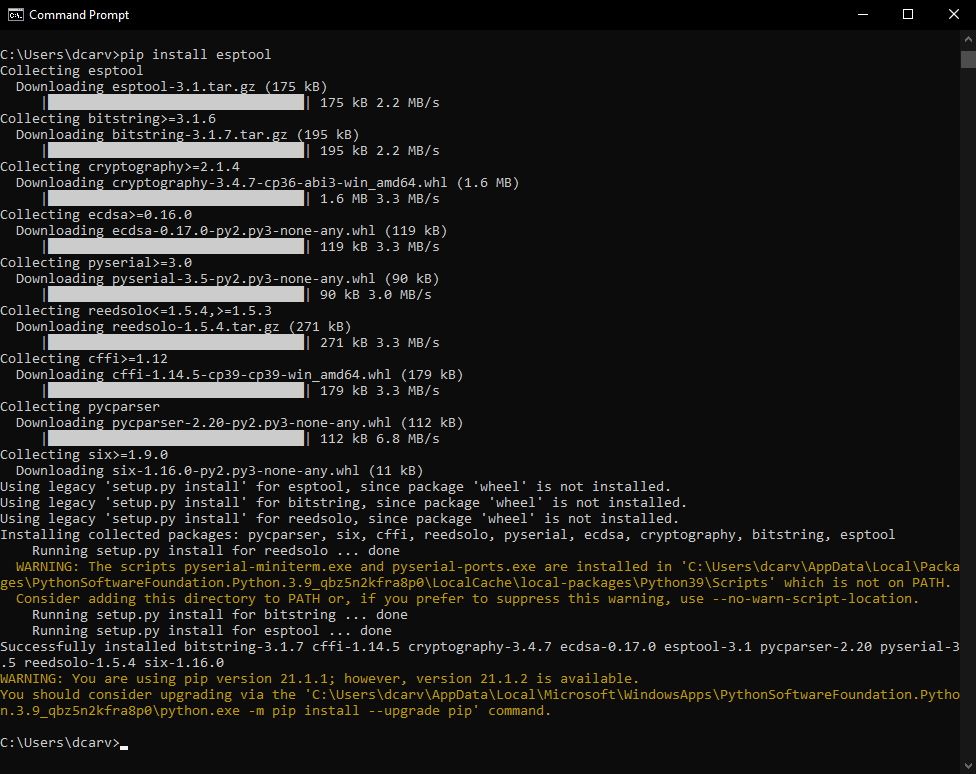
This guide will provide instructions on how to flash an ESP8266 with Micropython firmware. If you encounter any issues or wish to learn more about Micropython, visit [Micropython ESP8266 Installation](http://docs.micropython.org/en/v1.15/esp8266/tutorial/intro.html#getting-the-firmware).

This guide assumes you have correctly wired and setup a serial UART communication line from your ESP8266 to your computer. If you have not done so, follow the “ESP8266\_ProgrammerAndSerialUART\_Wiring” guide.

Before you begin this guide you will need to download the following:

* Stable download of Micropython firmware, in this guide we will use v1.11
* Python installed on your computer, we will use v3.7
* “PIP” functionally in your command prompt (should come with Python)

1. Open your command prompt and run: pip install esptool



You should see a similar output. You can ignore the warnings, but you are free to run the suggested command to update your pip.

2. We will use the esptool to erase the current flashed firmware, run: esptool --port X erase\_flash

Replace the ‘X’ with the port number that your ESP8266 is connected serially to. In this example, port COM5 is used.

3. Next, change to the directory you have the downloaded firmware in and run: esptool --port COM5 --baud 115200 write\_flash --flash\_size=detect 0 esp8266-20190529-v1.11.bin

You can replace “esp8266-20190529-v1.11.bin” with the name of the firmware bin you downloaded

4. If the above lines run successfully, a clean Micropython install will be on your ESP8266