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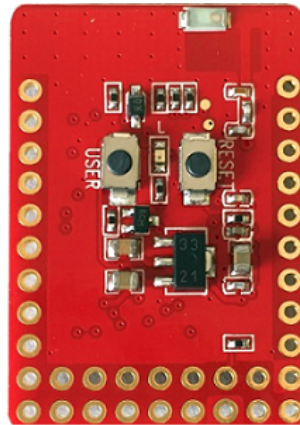## [RBLWiki](#) / WiFi_Micro_GettingStartedGuide                          View    History    Edit      Delete

## Getting Started with RedBearLab CC3200 and WiFi Mini

Last Updated: 2015-03-30



## Out of Box

1. Power on the RedBearLab Wi-Fi Micro board by connecting a 3.3V power source to 3.3V pin, or connecting a 5V power source to VIN pin. The on-board I/O indicator LED (L) will be turn on.

2. From your PC or smart phone and go to the WiFi setting page. You will see an Access Point (AP) which the SSID name is "RedBearLab CC3200" on the AP scan result list. Choose the "RedBearLab CC3200" AP to connect to. This AP's secure type is open and you will connect to it without any password.
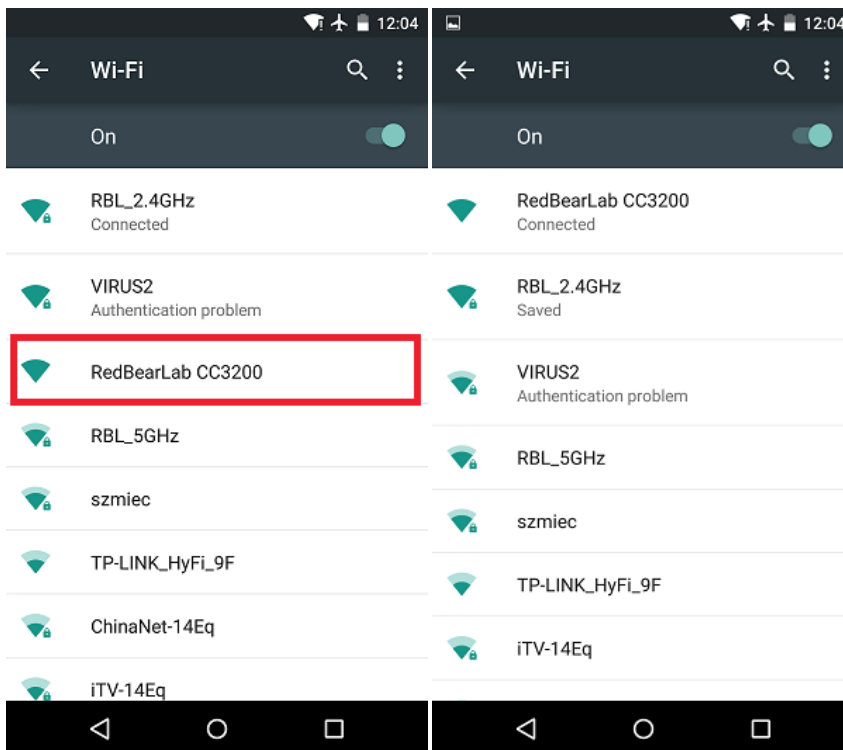


3. Start a web browser (e.g. IE/Safari/Chrome) on your PC or smart phone. Type the AP's IP address, which is "**192.168.1.1**", into the web browser address bar and go. It will show the welcome message "RedBearLab CC3200 WiFi Test" and two buttons to allow you to turn on/off the on-board yellow I/O indicator - LED (L).

4. Push the "ON"/"OFF" button on the web page and see the state of the on-board IO indicator - LED (L) to verify your board' WiFi is fully functional.

## Getting Started with Energia

You can develop RedBearLab Wi-Fi Micro using Energia IDE, a modified version of the Wiring/Arduino IDE for those boards with MCUs from Texas Instruments. We have provided an add-on package to fully support the RedBearLab Wi-Fi Micro. You can just compile the existing examples directly or develop you own application using the APIs provied by Energia.
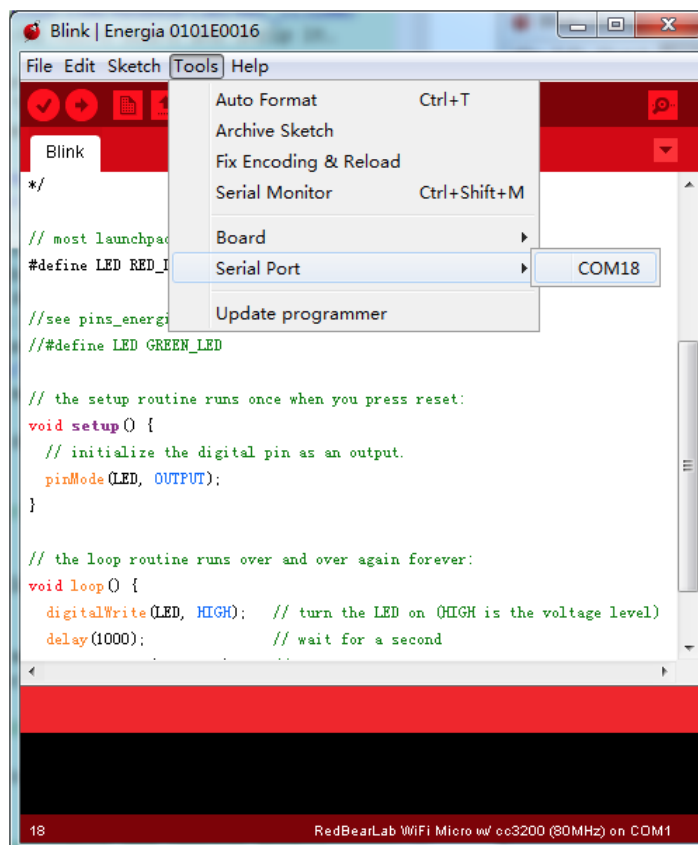
1. Download Energia and install it on your PC. The RedBearLab CC3200 and Wi-Fi Mini boards are defaultly supported in the latest version of Energia. But regarding to Wi-Fi Micro, you need to install an add-on package to get it supported.

2. Download the add-on package for Wi-Fi Micro board and unzip it.

3. Navigate to Energia installing path, there is a folder named "hardware". Merge the "hardware" folder with the unzip "hardware" folder. It makes no effects on the previous configuration of Energia.

4. Download the RedBearLab MK20 dongle firmware for Wi-Fi Micro. Keep pressing the side-button on the dongle and plug it into PC. A mass storage disk named "BOOTLOADER" will appear on your PC. Open the disk and drag/copy the downloaded firmware into it to update the dongle firmware for Wi-Fi Micro skecth uploading. You should note that the default firmware in the MK20 dongle is to update firmware for RedBearLab BLE Nano. Thus when you want to use the dongle to update the BLE Nano firmware, download the `BLENano_MK20.bin` and update the dongle firmware in the same method.

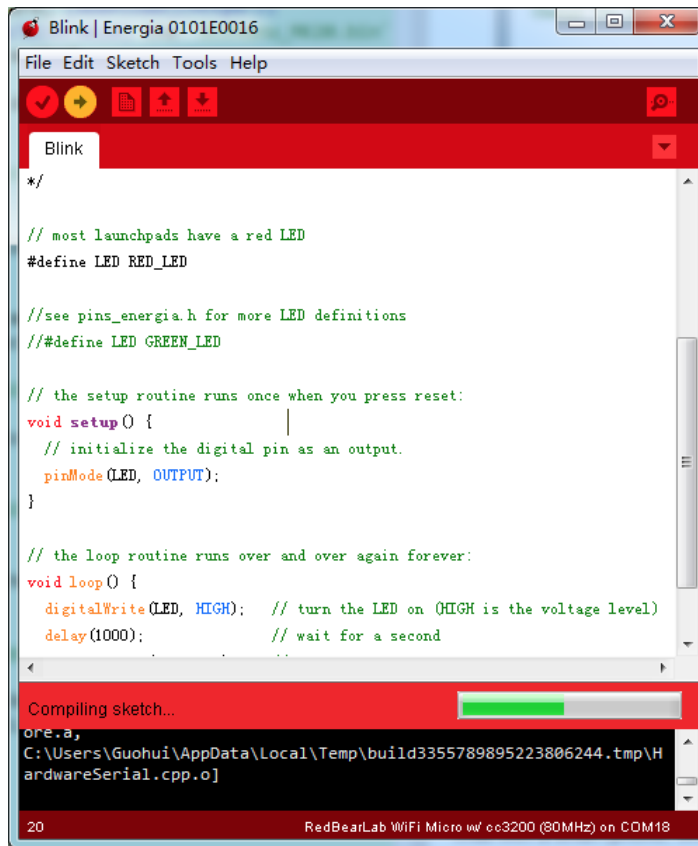5. Mount Wi-Fi Micro on to RedBearLab MK20 dongle as below and connet the dongle to your PC.



6. Open the Energia IDE. Click on the "**File > Examples > 1.Basics > Blink**" to open the blink sketch.

7. Click on the "**Tools > Board**" on the menu bar. The RedBearLab Wi-Fi Micro board has been added to the IDE. Select the board you are using.
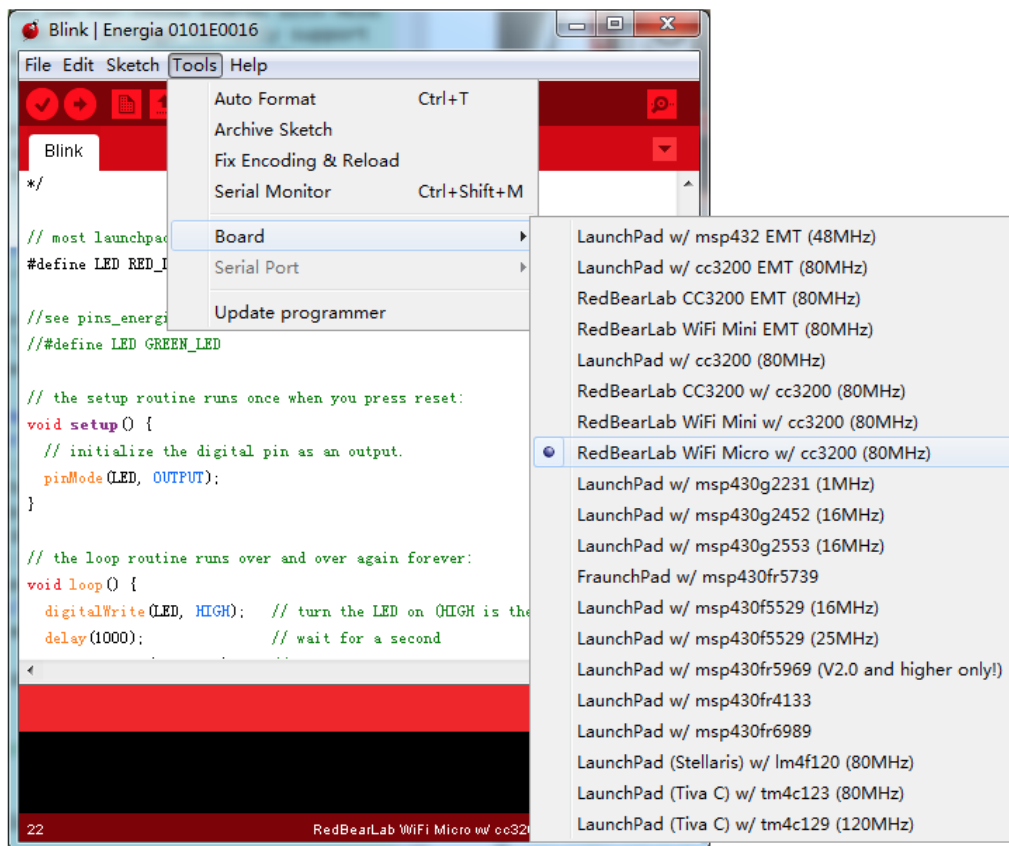
8. Click on the "**Tools > Serial Port**" to choose the serial port for your WiFi board.



9. Click on the **right arrow** button on the tool bar to compile and upload the shetch to your WiFi board.

10. After uploading the sketch, push the on-board reset button to run. You will see the on-board I/O indicator - LED (L) toggling in every second interval.

Updated 2015-09-11

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