RFD22301, RFD22102
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RFduino
www.RFduino.com • sales@RFduino.com
1601 Pacific Coast Hwy • Suite 290
Hermosa Beach • CA • 90254
Tel: 949.610.0008

Based On
RFD22301
RF Digital
RF Module

RFduino Quickstart Guide

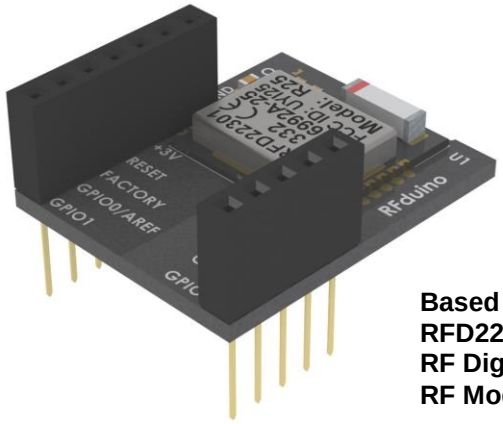
RFD22102 RFduino DIP

RFD22121 USB Shield
RFD22122 RGB LED / Button Shield
RFD22123 Servo Shield
RFD22124 PCB USB Shield
RFD22125 Proto Shield
RFD22126 Dual AAA Battery Shield
RFD22127 Single AAA Battery Shield
RFD22128 CR2032 Battery Shield
RFD22130 MicroSD Shield
RFD22131 Dual Relay Shield

RFD90101, RFD90102, RFD90103, RFD90104, RFD90105 Eval / Dev Kits

An RFduino "Shield" is a modular accessory that directly plugs into the RFduino.

Shrunk an Arduino to the size of a finger-tip and made it Wireless!



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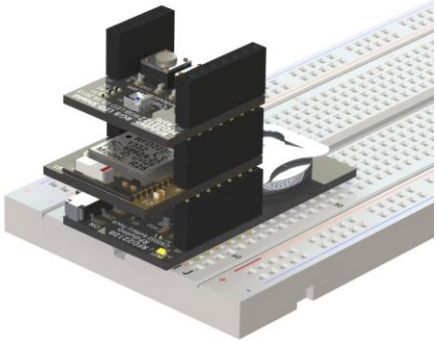
RFD22102 RFduino DIP



Stackable & plugs directly into breadboards

RFduino is a Bluetooth 4.0 Low Energy BLE RF Module with Built-In ARM Cortex M0 Microcontroller for Rapid Development and Prototyping Projects

Simple to use Arduino IDE and sketches running on professional grade hardware

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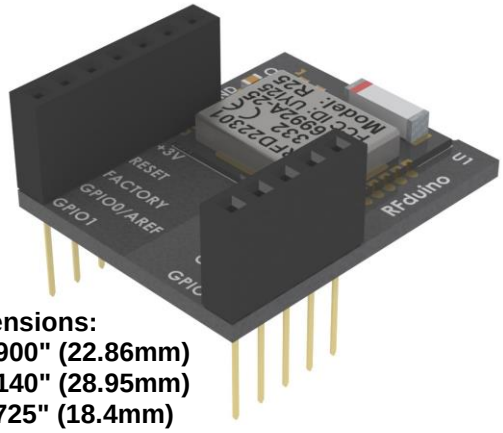
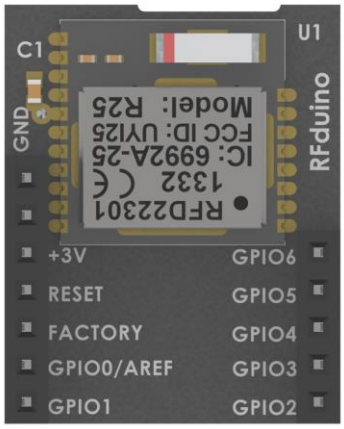
RFD22102 RFduino DIP

The RFduino is a Bluetooth 4.0 Low Energy BLE RF Module with Built-In ARM Cortex M0 Microcontroller for Rapid Development and Prototyping Projects. It features the RFD22301 SMT Module.



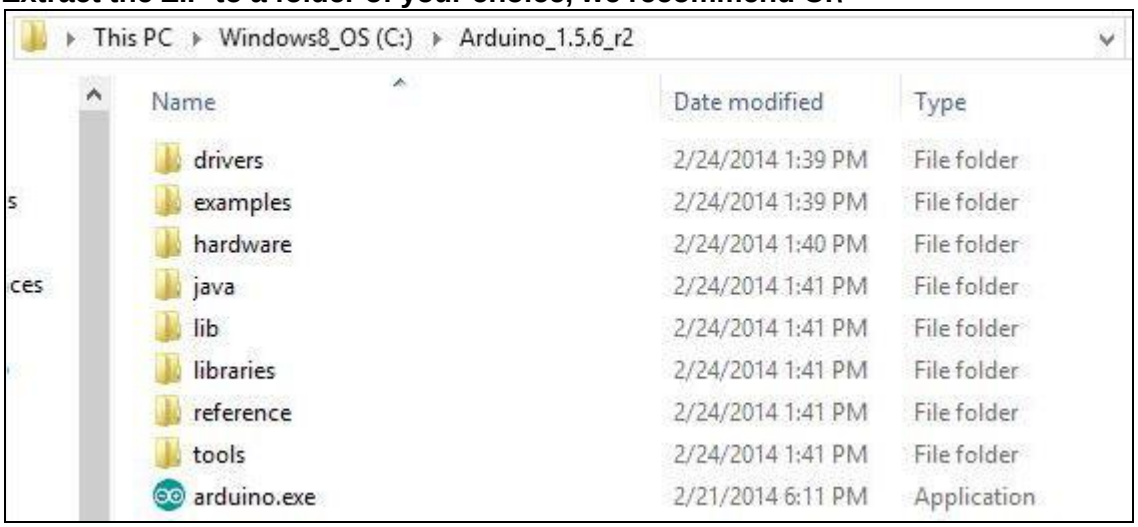
Dimensions:
X: 0.900" (22.86mm)
Y: 1.140" (28.95mm)
Z: 0.725" (18.4mm)



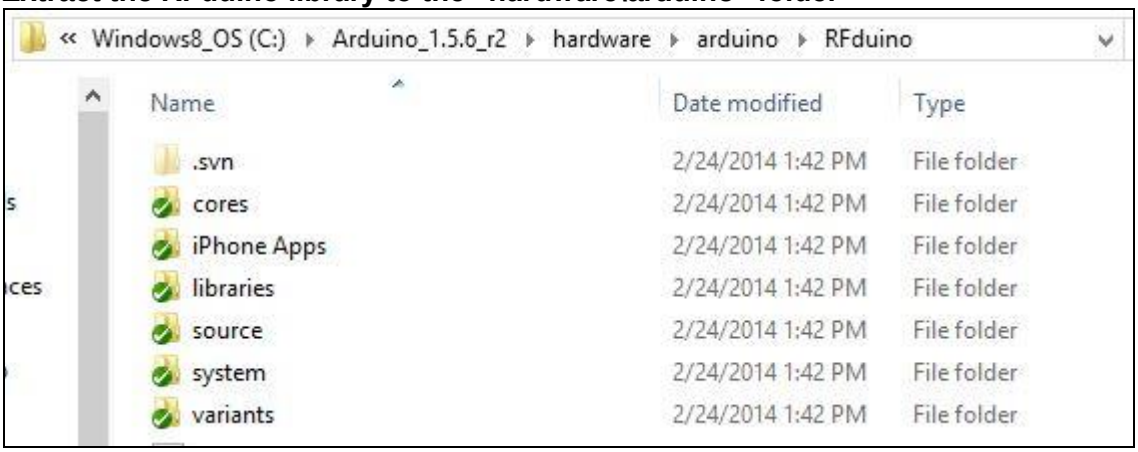
Description	Min	Nom	Max	Notes
VDD - Supply Voltage	1.9 V	3.0 V	3.6 V	
General Purpose I/O (GPIO) input high voltage	0.7 * VDD		VDD	
General Purpose I/O (GPIO) input low voltage	VSS		0.3 * VDD	
Output standard drive current		0.5 mA		
Output high drive current		5 mA		Max 3 pins
ULP Current with RC OSC Running		4uA		
Transmit Current		18mA		
Receive Current		18mA		
ARM CPU Running Current		4mA		

RFduino IDE Installation on Windows

1. Visit the following link: http://arduino.cc/en/Main/Software
2. Scroll down the page and download the Arduino 1.5.x Windows ZIP file (You must use 1.5.x not the 1.0.x version)
3. Extract the ZIP to a folder of your choice, we recommend C:\



4. Download the RFduino library from: http://www.rfduino.com or Github https://github.com/RFduino/RFduino
5. Extract the RFduino library to the "hardware\arduino" folder



6. RFduino IDE Installation is complete

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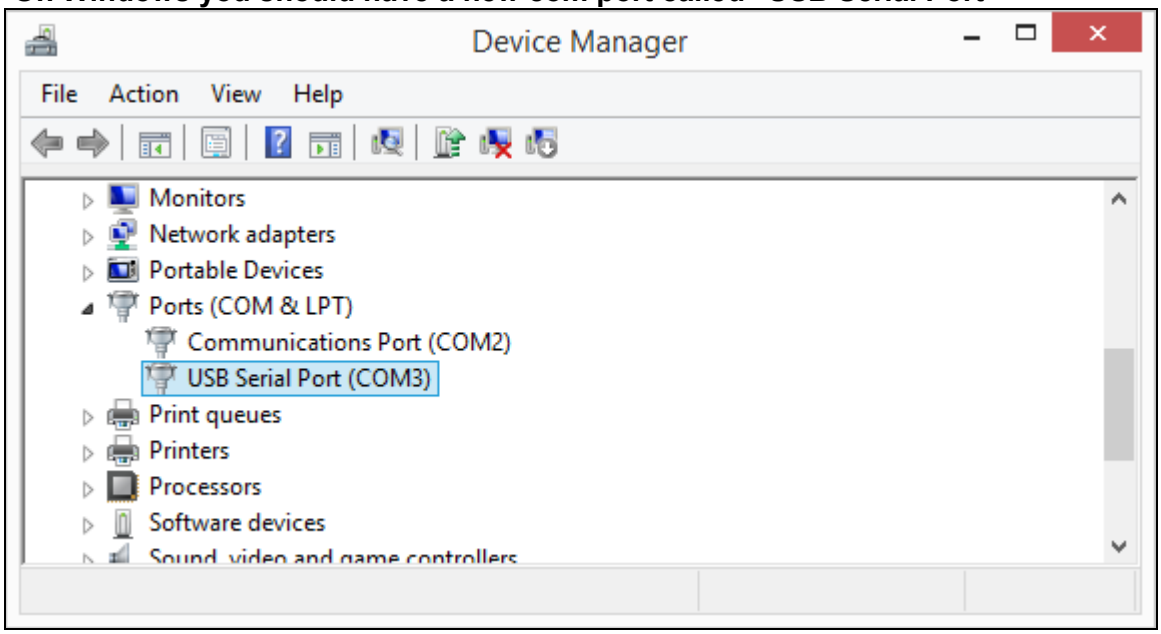
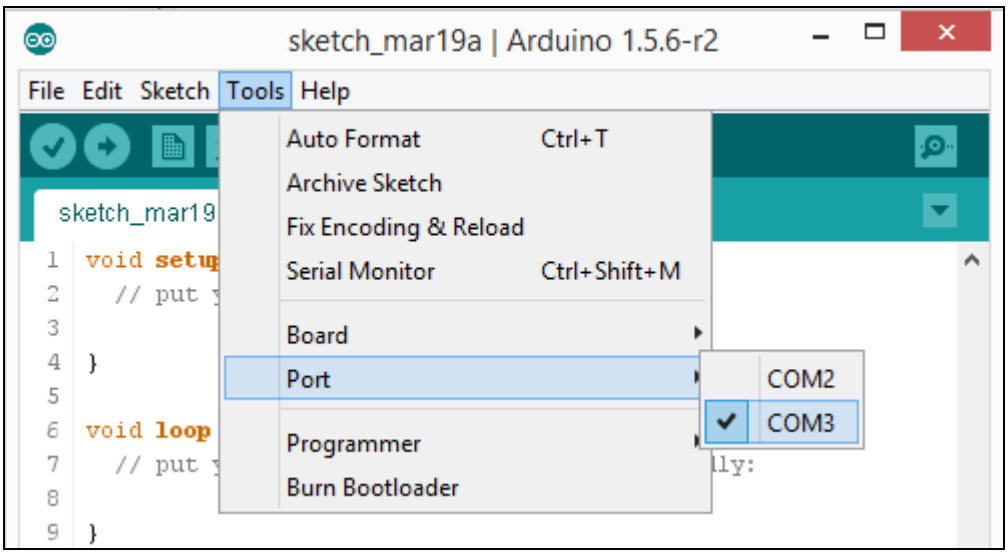
RFduino USB Driver Installation on Windows

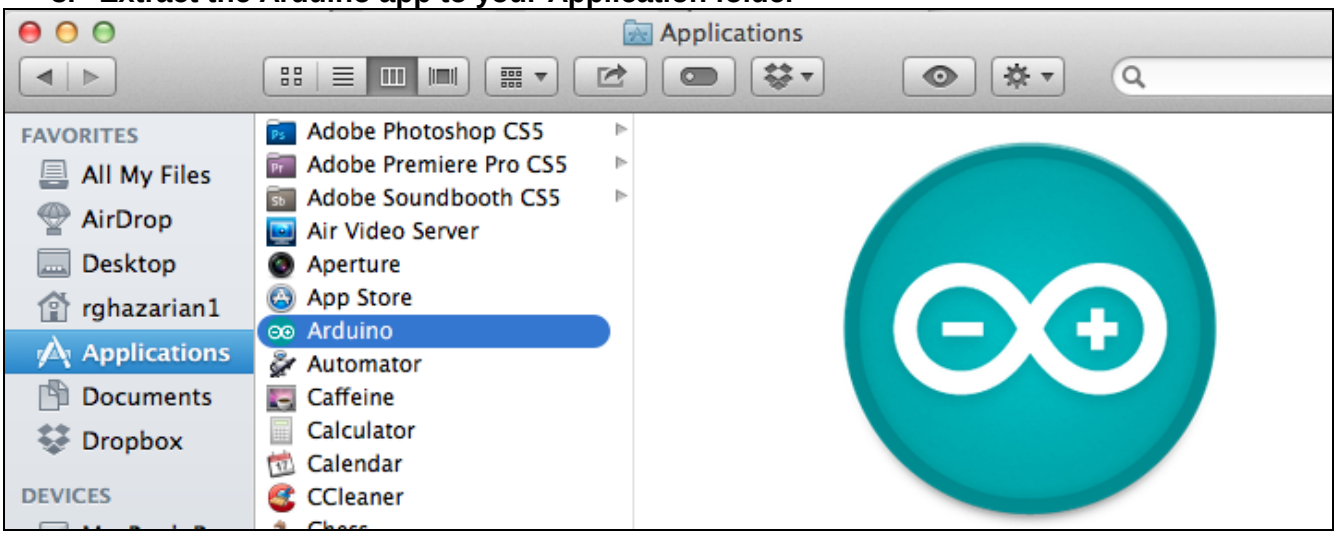
1. Visit the following link: http://www.ftdichip.com/Drivers/VCP.htm
2. Download and install the drivers for your system
3. On Windows you should have a new com port called “USB Serial Port”



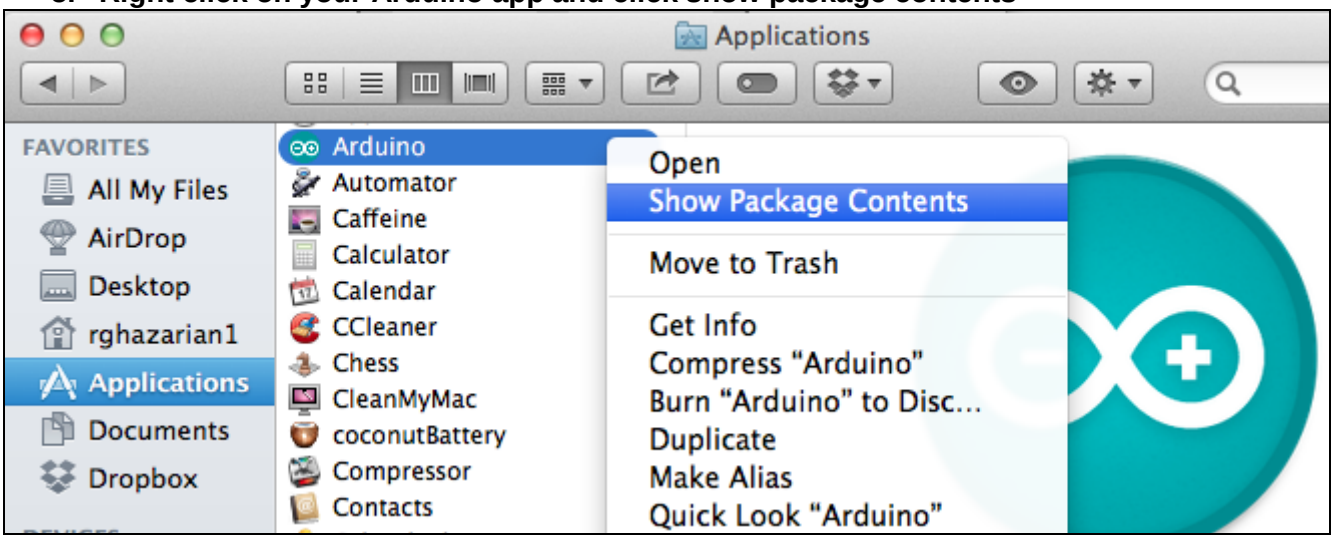


RFduino IDE Installation on Mac OS X

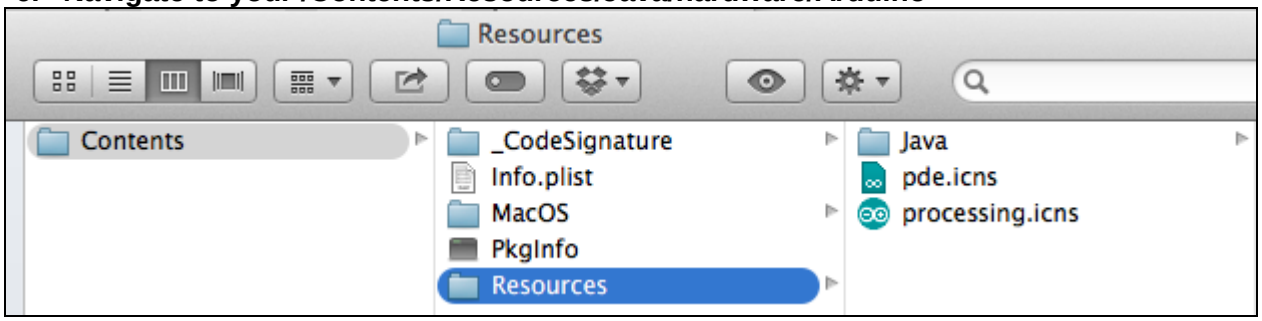
1. Visit the following link: http://arduino.cc/en/Main/Software
2. Scroll down the page and download the Arduino 1.5.x Mac OS X ZIP file (You must use 1.5.x not the 1.0.x version)
3. Extract the Arduino app to your Application folder

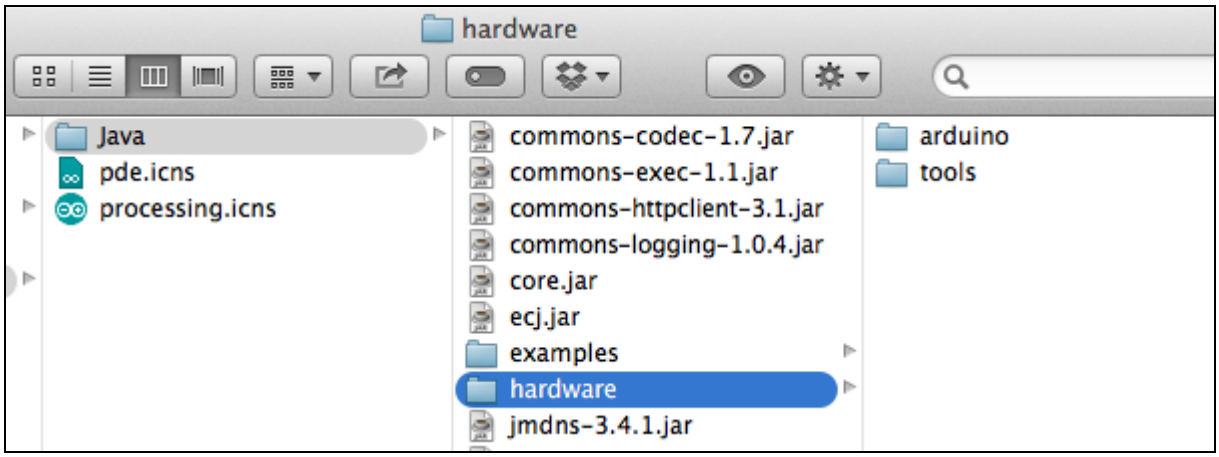


4. Download the RFduino library from: http://www.rfduino.com or Github https://github.com/RFduino/RFduino
5. Right click on your Arduino app and click show package contents

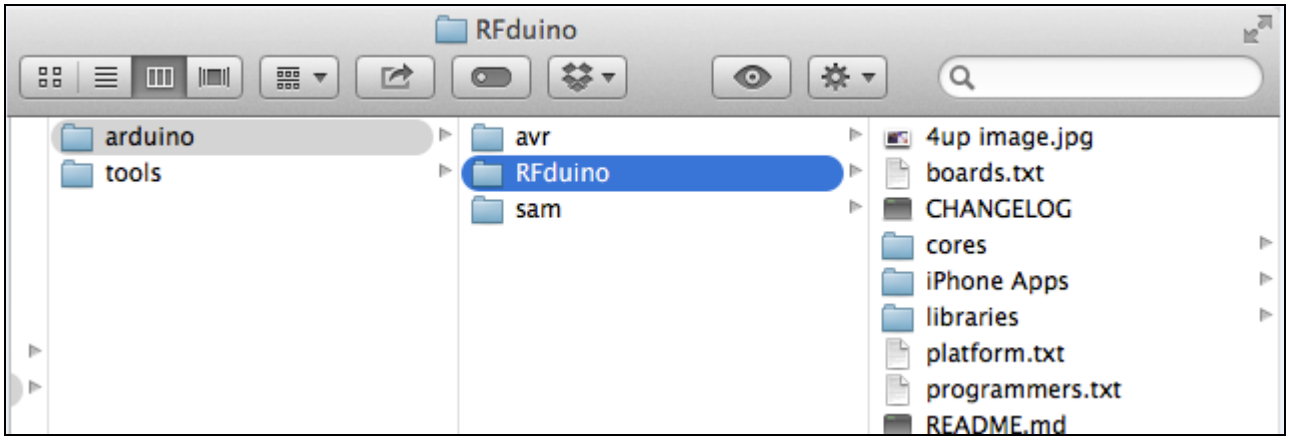


6. **Navigate to your /Contents/Resources/Java/hardware/Arduino**





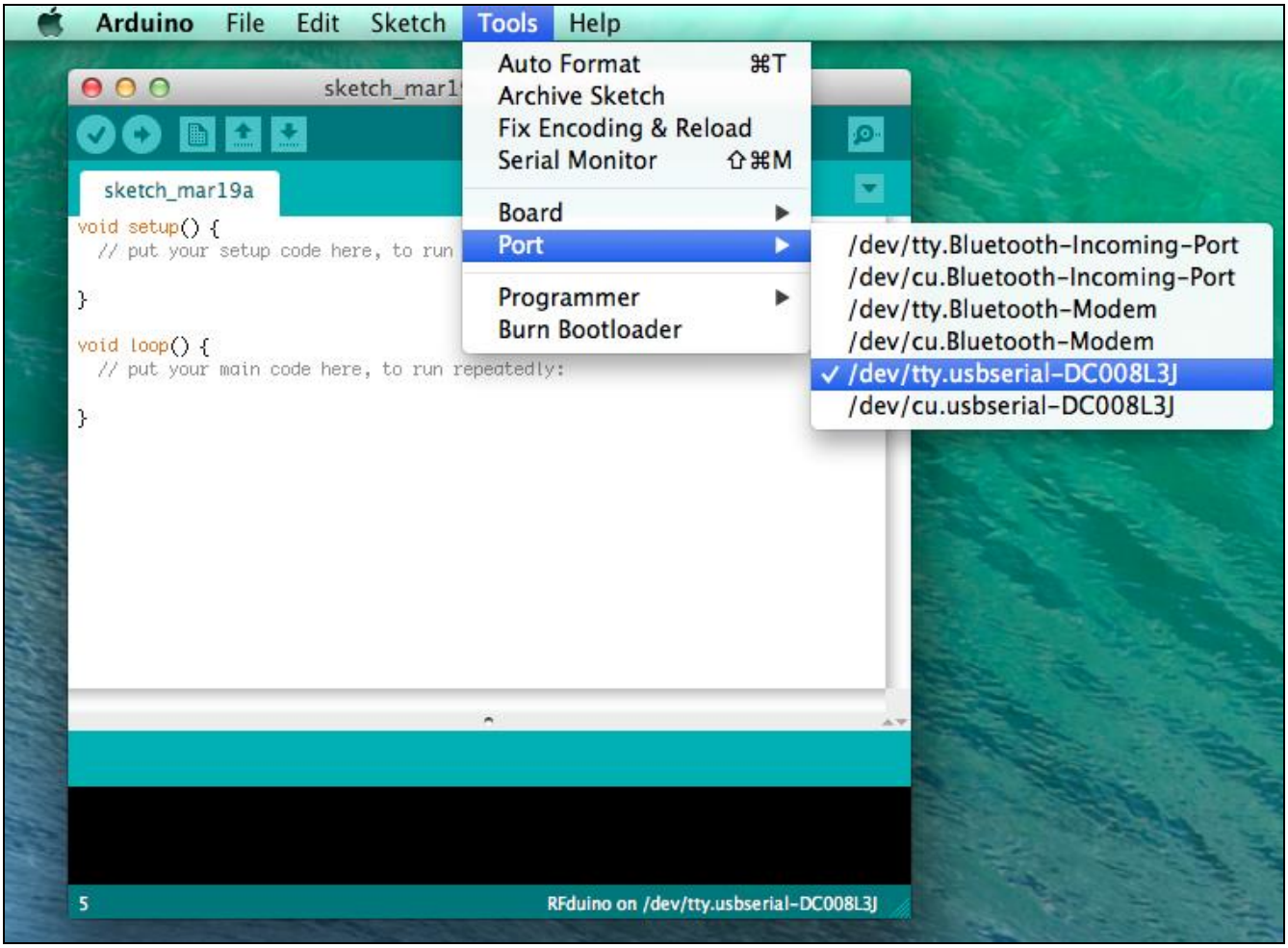
7. **Copy your "RFduino" folder from the RFduino library zip to your /Contents/Resources/Java/hardware/Arduino**



8. **RFduino IDE Installation is complete**

RFduino USB Driver Installation on Mac OS X

1. Visit the following link: http://www.ftdichip.com/Drivers/VCP.htm
2. Download and install the drivers for your system
3. On Mac OS X you should have a new com port called "/dev/tty.usbserial-xxxxxxxx"



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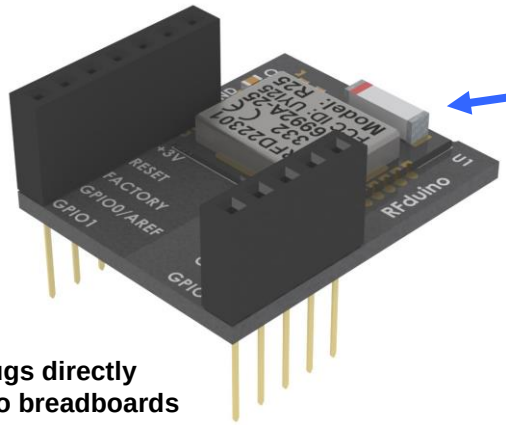
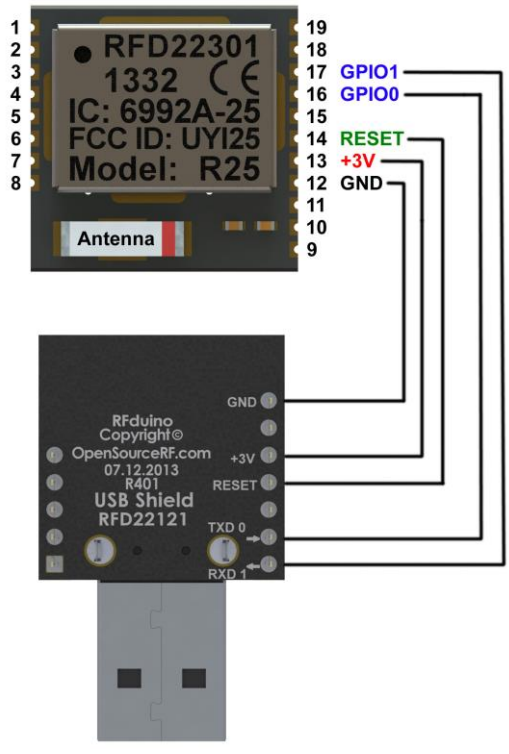
RFD22102 RFduino DIP is based on RFD22301 SMT

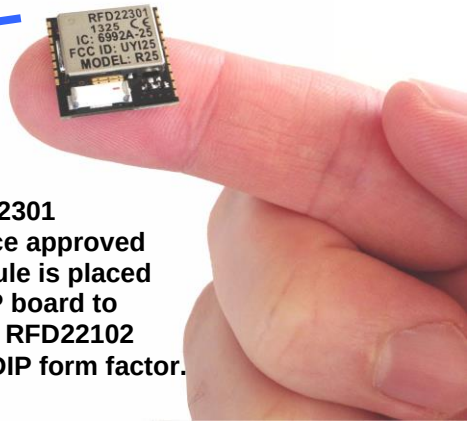
RFD22102 RFduino DIP



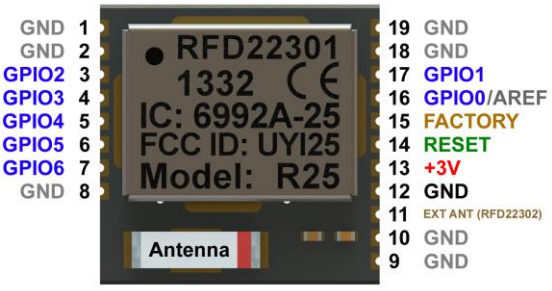
Plugs directly
into breadboards



RFD22301 RFduino SMT Module



The RFD22301 compliance approved SMT module is placed onto a DIP board to create the RFD22102 RFduino DIP form factor.



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See RFD22301 datasheet at:
http://www.RFDigital.com/