

# ENERGY HARVESTING REFERENCE DESIGN QUICK-START GUIDE

## Step by Step Instructions:

**1**

**Method 1 (Using Solar Power):**

Place the power select switch in the SOLAR position.

Place board in a well-lit room for 1 day or next to a window with sunlight for at least 60 minutes.



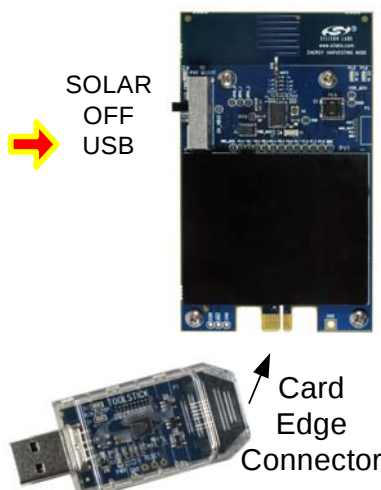
**Fully charge the Energy Harvesting Node Board before first use**

**Method 2 (Using USB Power):**

Place the power select switch in the USB position.

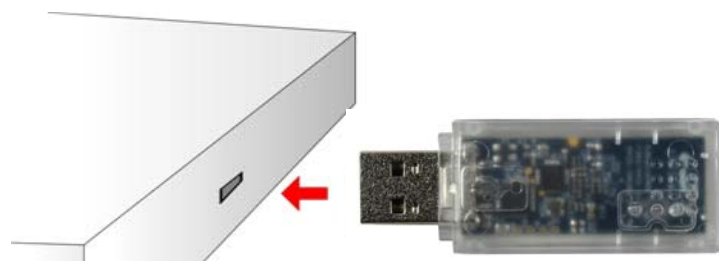
Connect the TOOLSTICKBASE adapter to the energy harvesting node board.

Plug the TOOLSTICKBASE adapter into a USB port for at least 30 minutes. A USB extension cable is supplied in the kit.



**3**

**Plug the EZRadioPRO® USB Dongle (p/n 4431-DAUBF342-HB) into a USB Port on your PC.**



**Note: The EZRadioPRO® USB Dongle does not have a card edge connector**

**4**

**Install the Wireless Development Suite from [www.silabs.com/MCUDownloads](http://www.silabs.com/MCUDownloads)**

|                            |         |                 |                                          |
|----------------------------|---------|-----------------|------------------------------------------|
| Flash Programming          | Read Me | 04/13/11; V3.90 | Flash Programming Utilities              |
| ToolStick                  | Read Me | 04/13/11; V2.50 | ToolStick Development Tools              |
| Production Programmer      | Read Me | 04/13/11; V2.50 | Production Programming Utility           |
| Battery Life Estimator     | Read Me | 10/28/09; V1.20 | Battery Estimation Utility               |
| QuickSense™ Studio         | Read Me | 01/19/11; V2.40 | QuickSense Studio                        |
| Hex2Svf                    | Read Me | 09/28/09; V1.22 | .HEX to .SVF Conversion Utility          |
| CP250x Development Tools   | Read Me | 09/16/10; V1.10 | CP250x Configuration Wizard & Bootloader |
| Wireless Development Suite | —       | V3.1.0          | Wireless Development Suite               |

| USB Software               |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| Product                    | Description                                                              |
| USBXpress® Development Kit | USBXpress Drivers, Firmware and Host API for CP210x and USB MCU products |
| CP210x VCP Drivers         | Drivers for Windows, Mac and Linux                                       |

**5**

**Run the Energy Harvesting Demo described in Section 5 of AN588.**



**6**

**Place the switch in the OFF position when traveling or when storing for prolonged periods of time.**



## Additional Information:

For additional information, use the following support resources:

- Energy Harvesting web page at <http://www.silabs.com/energy-harvesting>
- AN588 Energy Harvesting Reference Design User's Guide
- Si1012 Data Sheet
- EZMacPRO Installer with documentation from [www.silabs.com/wirelessmcu](http://www.silabs.com/wirelessmcu)

- Latest versions of application notes can be found at <http://www.silabs.com/products/mcu/Pages/ApplicationNotes.aspx>
- MCU Knowledgebase (available at [www.silabs.com](http://www.silabs.com) → SUPPORT)
- Contact an Applications Engineer using the online information request form (available at [www.silabs.com](http://www.silabs.com) → SUPPORT → Contact Technical Support).