

# 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.

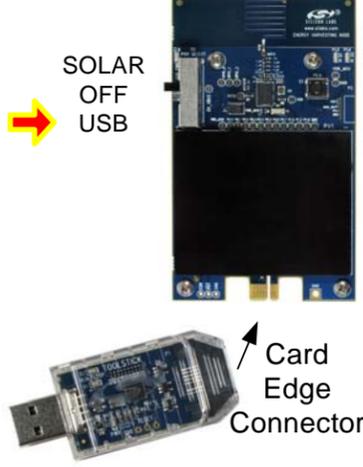


**Method 2 (Using USB Power):**

Place the power select switch in the USB position.

Connect the TOOLSTICKBASE adapter to the energy harvesting node board.

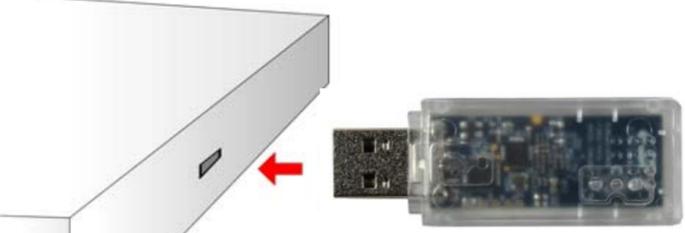
Plug the TOOLSTICKBASE adapter into a USB port for at least 30 minutes. A USB extension cable is supplied in the kit.



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

**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).