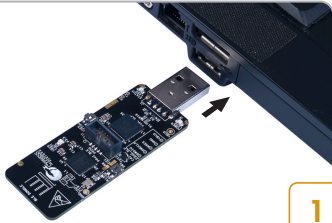


# SOLAR POWERED IoT DEVICE KIT

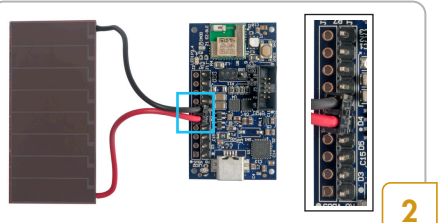


## Kit Contents:

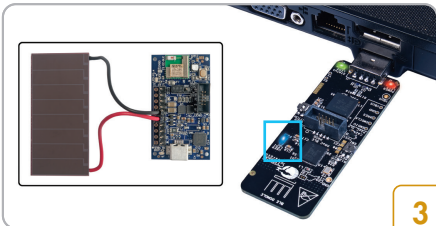
- 1 Energy Harvesting Motherboard
- 2 BLE-USB Bridge
- 3 Series Solar Module (Panasonic AM-1801)
- 4 Two jumper wires
- 5 220  $\mu$ F Capacitor and 10 $\Omega$  Resistor
- 6 USB Standard-A to Mini-B cable
- 7 Quick Start Guide (this document)



- Connect the BLE-USB Bridge to your computer's USB port. This demo does not require installing the drivers



- Connect the Solar Module (included with the kit) to pins 5 and 6 of header J1 on the Motherboard



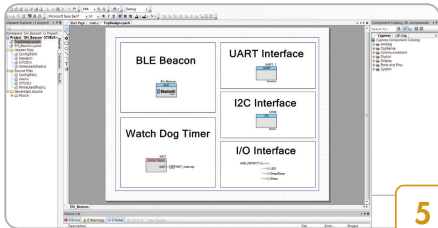
- A blue LED on the BLE-USB Bridge will blink once a second, indicating Bluetooth® Beacon data being received from the Motherboard

**Note:** The initial firmware programmed into the BLE-USB Bridge does not support the CySmart Software Utility. It is programmed with customized firmware for this kit

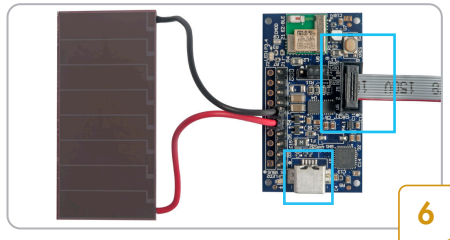


- Cover the Solar Module for five seconds with your hand, and notice the blue LED on the BLE-USB Bridge will no longer blink. When you remove your hand from the Solar Module, the blue LED will blink again

# SOLAR POWERED IoT DEVICE KIT



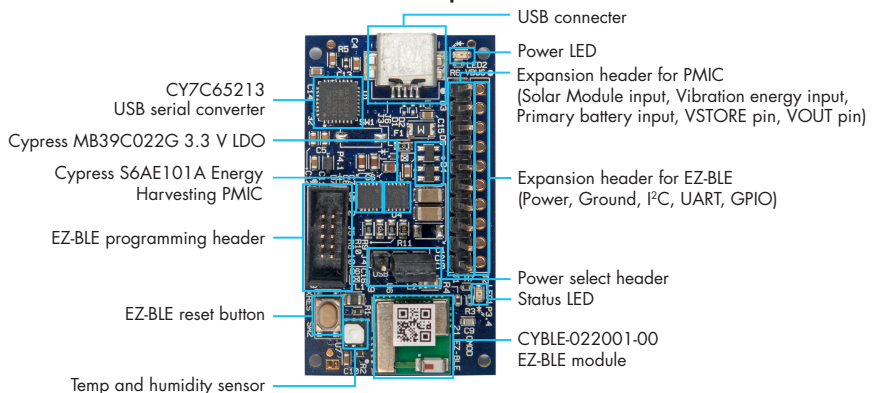
- Download the Solar Powered IoT Device Kit example projects, documents, and hardware design files from [www.cypress.com/energy-harvesting](http://www.cypress.com/energy-harvesting)



- To debug your PSoC® Creator™ project, connect the Motherboard to your computer with a MiniProg3 (Not included in the package)
- To program your PSoC Creator project, use the included USB-Serial bootloader and USB cable.
- Refer to the Kit User Guide for additional information on example projects

Note: If evaluating this demo near another Solar Powered IoT Device Kit that is advertising (when using the default firmware), the blue LED on dongle may blink always. In this case, disconnect the solar cell from all other kits, then repeat step 4

## Board Description



For the latest information about this kit, visit [www.cypress.com/energy-harvesting](http://www.cypress.com/energy-harvesting)