

# EFM32 Pearl Gecko Family QSG118: EFM32PG1 SLSTK3401A Quick-Start Guide

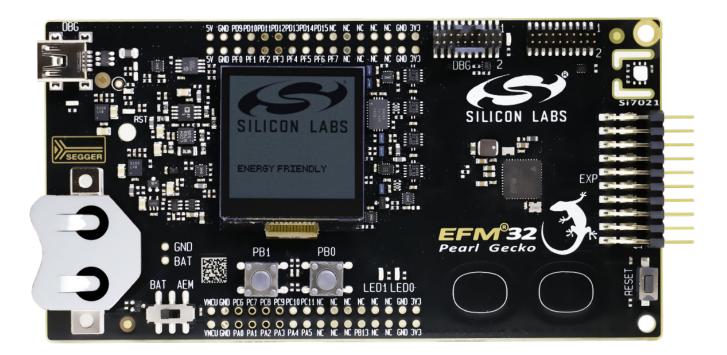


The EFM32PG1 SLSTK3401A is an excellent starting point to get familiar with the EFM32 Pearl Gecko microcontrollers.

The kit contains sensors and peripherals demonstrating some of the MCU's many capabilities. The kit can also serve as a starting point for application development.

#### KIT CONTENTS

- EFM32 Pearl Gecko Starter Kit board
  1 x mini USB cable
- 1 x mini USB cable
- 1 x CR2032 coin cell battery
- Getting Started card



## 1. Getting Started

Install Simplicity Studio

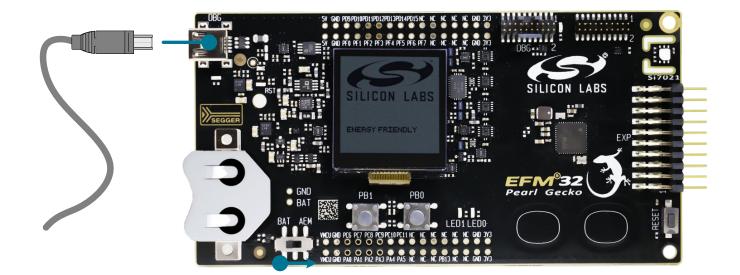
Simplicity Studio is a free software suite needed to start developing your application. Download the latest version of Simplicity Studio from the Silicon Labs website:

http://www.silabs.com/simplicity-studio

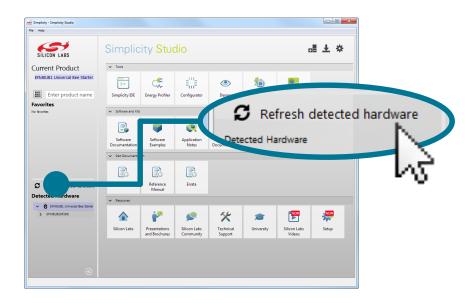


Note: The board comes pre-loaded with a default application, Gecko Blinky, to play with while the software downloads.

- Set Up Your Kit
  - 1. Provide power to the board by connecting the DBG USB connector to the PC using the provided USB cable.
  - 2. Move the switch to the AEM position.



- · Detect Your Device
  - 1. Click [Refresh detected hardware]. The board may take some time to appear due to driver installations for the debug adapter.
  - 2. Click the EFM32 Pearl Gecko Starter Kit Board. This will verify that the installation was successful, identify the MCU on the kit hardware, and automatically configure the software tools for use with your device.



- Run the Energy Mode (emode) Demo
  - 1. Click the [Demos] tile to load the available demos.
  - 2. Select [SLSTK3401A emode], ensure [Run with Energy Profiler] is selected under [Mode] with [Enable Code Correlation] checked, and click [Start] to download and run the demo.
  - 3. Pressing [**PB1**] will cycle through the energy modes available. Press [**PB0**] to select an energy mode. The energy consumption in these modes can be viewed using Energy Profiler.

	Select Demonstration Select a demonstration and the action with which to run it. Filter demonstrations using the radio buttons next to 'Show'.
	Name         Description           SLSTK3401A blink         Bink example.           SLSTK3401A clock         Analog and digital clock example using the Memory LCD on the SLSTK3401A.           SLSTK3401A emode         Select a single energy mode, and stary there.           SLSTK3401A emode         Select a single energy mode, and stary there.           SLSTK3401A unimemp         Humidity and temperature demo using the on-board ST/021 sensor on the SLSTK3401A board.           SLSTK3401A powerset         Power test example. running demonstration of energy modes.           SLSTK3401A not,blink         Keil RTX RTOS - Blink example           SLSTK3401A rectifies and the prestruct energy in the sharp Memory LCD on the SLSTK3401A board.
e lange sean nea	Select a single energy mode, and stay there. This example project uses the EFM32 CMSIS and demonstrates the use of the LCD display, RICC, GPIO and various Energy Modes (EM).
License Irodu Current Product Tentense Unit Demos Demo	Use PB1 to cycle through the energy mode tests available. Press PB0 to start selected test. This demo application has been made to give a quick demo of the energyAware Profiler from Silicon Labs, including EFM32 energy modes. Show:  Selected product Multi-node All Action: Run under Energy Profiler  Finable Code Correlation ()
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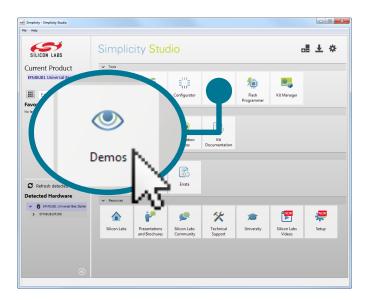
Utilize the Available Resources

The next section includes additional resources available for the kit, including software examples, documentation, and application notes.

### 2. Resources

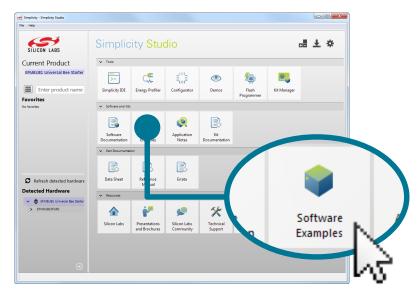
#### Demos

Demos are a quick and easy way to evaluate a device without compiling or debugging code. Demos can be accessed using the [**De-mos**] tile.



#### **Software Examples**

Software examples can be imported, compiled, and downloaded using the [Software Examples] tile.



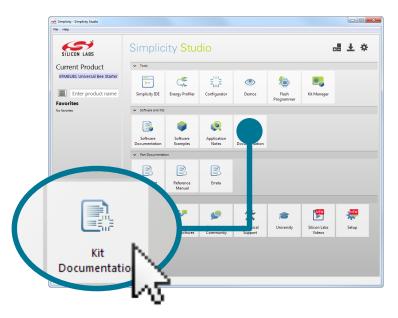
#### **Software Documentation**

Software documentation provides more information on the firmware libraries available for the selected device. Access these documents using the [Software Documentation] tile.

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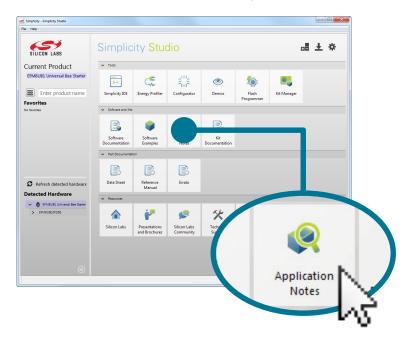
#### Kit Documentation and User's Guide

Kit documentation like the schematic and detailed board description can be found using the [Kit Documentation] tile.



#### **Application Notes**

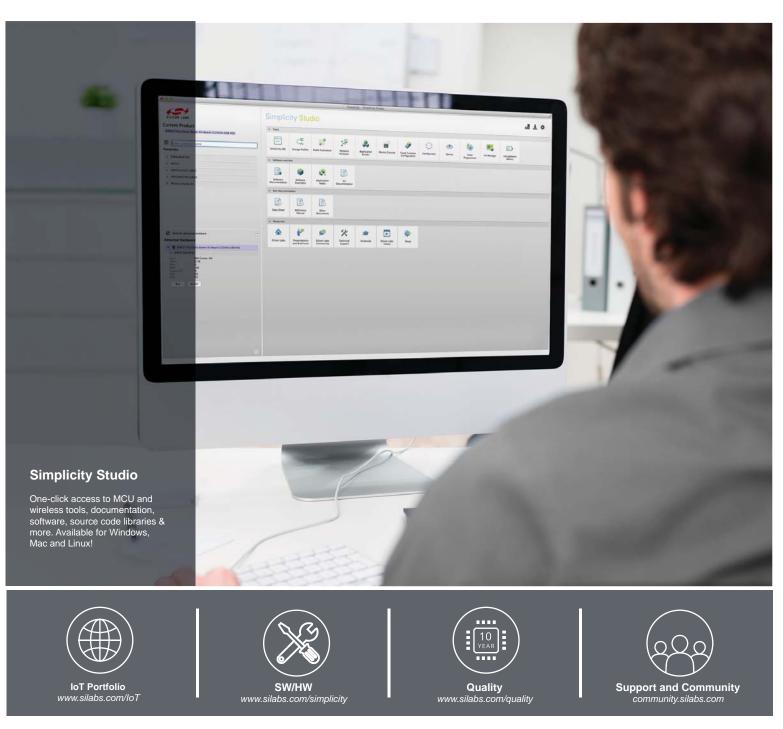
Application Notes on peripherals and other various topics can be accessed using the [Application Notes] tile.



#### **Community and Support**

Have a question? Visit the community by clicking the [Community] tile.

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