

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

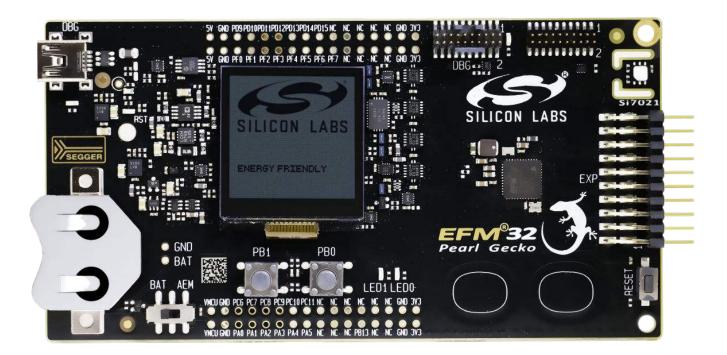


The EFM32PG1 SLSTK3401A is an excellent starting point to get familiar with the EFM32 Pearl Gecko microcontrollers.

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

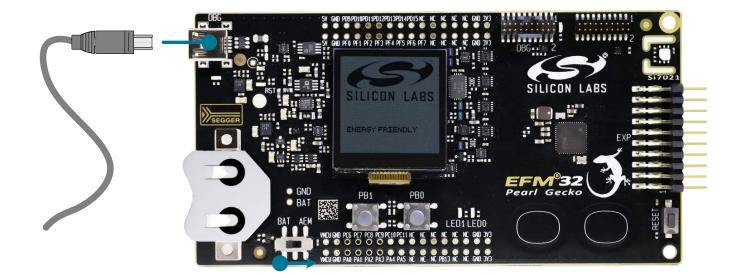
Simplicity Studio is a free software suite needed to start developing your application. Download the latest version of Simplicity Studio from the Silicon Labs website:

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 Blink example. SLSTK3401A clock Analog and digital clock example using the Memory LCD on the SLSTK3401A. SLSTK3401A enick Energy Modes with LCD display example.
	SLSTK3401A emode Select a single energy mode, and stay there.
	SLSTK3401A glib GLIB example using the Sharp Memory LCD on the SLSTK3401A. SLSTK3401A humitemp Humidity and temperature demo using the on-board ST021 sensor on the SLSTK3401A board. SLSTK3401A hoverster Power test example. running demonstration of energy modes. SLSTK3401A rockblink Keil RTX RTOS - Blink example SLSTK3401A textdisplay Printf output on Sharp Memory LCD LS01387DH03.
ng ang ang ang ang ang ang ang ang ang a	Select a single energy mode, and stay there.
Simplicity Studio	This example project uses the EFM32 CMSIS and demonstrates the use of the LCD display, RICC, GPIO and various Energy Modes (EM).
Carriers Protoci	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.
Demos Demos	Show: Selected product Multi-node All Action: Run under Energy Profiler
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	() [Pack Ment > [Pitah Cancel

• 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.



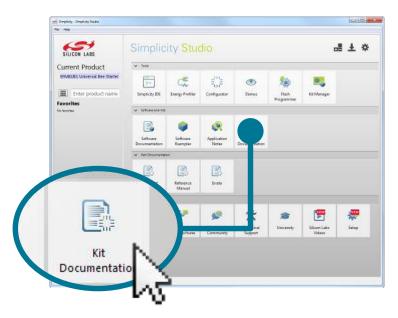
Software Documentation

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



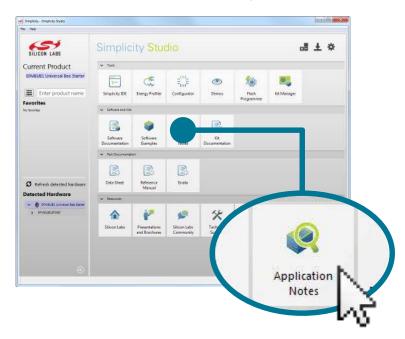
Kit Documentation and User's Guide

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



Application Notes

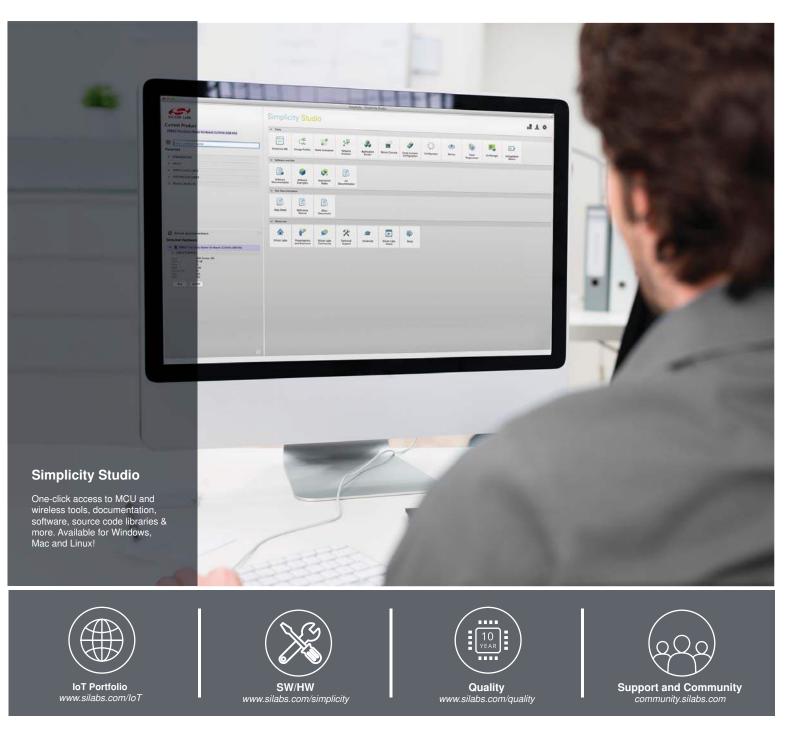
Application Notes on peripherals and other various topics can be accessed using the [Application Notes] tile.



Community and Support

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





Disclaimer

Silicon Laboratories intends to provide customers with the latest, accurate, and in-depth documentation of all peripherals and modules available for system and software implementers using or intending to use the Silicon Laboratories products. Characterization data, available modules and peripherals, memory sizes and memory addresses refer to each specific device, and "Typical" parameters provided can and do vary in different applications. Application examples described herein are for illustrative purposes only. Silicon Laboratories reserves the right to make changes without further notice and limitation to product information, specifications, and descriptions herein, and does not give warranties as to the accuracy or completeness of the included information. Silicon Laboratories shall have no liability for the consequences of use of the information supplied herein. This document does not imply or express copyright licenses granted hereunder to design or fabricate any integrated circuits. The products must not be used within any Life Support System without the specific to result in significant personal injury or death. Silicon Laboratories products are generally not intended to support or sustain life and/or health, which, if it fails, can be reasonably expected to result in significant personal injury or death. Silicon Laboratories products not be used in weapons, or missiles capable of delivering such weapons.

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