



32-bit MCU SDK 6.6.8.0 GA

Gecko SDK Suite 4.5.1

August 19, 2026

The 32-bit MCU SDK provides sample applications for EFM32 and EZR32 development kits.

Continued Software Support for Your Silicon Labs Devices

At Silicon Labs, we're committed to delivering dependable, well-supported software for all actively supported hardware products.

The GSDK 4.5 LTS is a long-term support release tailored specifically for **Series 0 and Series 1 devices** that are **not compatible with the Simplicity SDK**. This release ensures ongoing maintenance and stability for devices that are still in active use (i.e., not marked as NRND or EOL).

For customers using **Series 2 or Series 3 devices**, all new features and updates will be provided through the **Simplicity SDK**. To take advantage of the latest innovations and continued support, we encourage you to adopt or migrate to the most recent Simplicity SDK release.

If you have questions about migration or need help choosing the right SDK for your product, our support team is here to help.

This document covers the following SDK versions:

6.6.8.0 released August 19, 2026

6.6.7.0 released October 8, 2025 (Underlying platform changes only)

KEY FEATURES

- The GSDK 4.5 LTS is a long-term support release tailored specifically for Series 0 and Series 1 devices that are not compatible with the Simplicity SDK. This release ensures ongoing maintenance and stability for devices that are still in active use (i.e., not marked as NRND or EOL).
- Added support for new OPNs
- Upgrade compilers to GCC 12.2.1 and IAR 9.40.1

Compatibility and Use Notices

For information about security updates and notices, see the Security chapter of the Gecko Platform Release notes installed with this SDK or on the [Silicon Labs Release Notes page](#). Silicon Labs also strongly recommends that you subscribe to Security Advisories for up-to-date information. For instructions, or if you are new to the 32-bit MCU SDK, see [Using This Release](#).

Compatible Compilers:

This version of the 32-bit MCU SDK is compatible with the following tool chains.

- IAR Embedded Workbench for ARM (IAR-EWARM) version 9.40.1
- GCC (The GNU Compiler Collection) version 12.2.1 (provided with Simplicity Studio)

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1 New Items

The **GSDK 4.5 LTS** is a long-term support release tailored specifically for **Series 0 and Series 1 devices** that are **not compatible with the Simplicity SDK**. This release ensures ongoing maintenance and stability for devices that are still in active use (i.e., not marked as NRND or EOL).

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New in release 6.6.0.0

Added support for the following new OPNs:

- BRD2500B
- BRD2501B

2 Improvements

None.

3 Fixed Issues

Fixed in release 4.5.1.0

ID #	Description
1556184	Updated sl_gsdk_version.h to reflect the correct version.
1257561	Fixed an IOSTream issue on EFM32GG11, EFM32TG11, and EFM32GG12 where selecting UART could cause the application to hang. Updated initialization to correctly support both UART and USART modules.

4 Known Issues in the Current Release

Known issues in release 6.6.0.0

There is a known issue, detected when updating the GCC toolchain from version 10.3 to 12.2, which increases the RAM usage by about 400 bytes in some cases.

5 Deprecated Items

None.

6 Removed Items

None.

7 Using This Release

The 32-bit MCU SDK v 64.x is installed as part of Gecko SDK (GSDK) 4.4.x, the suite of Silicon Labs SDKs. To quickly get started with the GSDK, install [Simplicity Studio 5](#), which will set up your development environment and walk you through GSDK installation. Simplicity Studio 5 includes everything needed for IoT product development with Silicon Labs devices, including a resource and project launcher, software configuration tools, full IDE with GNU toolchain, and analysis tools. Installation instructions are provided in the online [Simplicity Studio 5 User's Guide](#).

Alternatively, Gecko SDK may be installed manually by downloading or cloning the latest from GitHub. See https://github.com/SiliconLabs/gecko_sdk for more information.

This release contains the following.

EFM32 and EZR32 sample applications

This SDK depends on Gecko Platform. The Gecko Platform code provides functionality that supports protocol plugins and APIs in the form of drivers and other lower layer features that interact directly with Silicon Labs chips and modules. Gecko Platform components include EMLIB, EMDRV, RAIL Library, NVM3, and mbedTLS. Gecko Platform release notes are available through Simplicity Studio's Launcher Perspective.

The GSDK default install location has changed with Simplicity Studio 5.3.

Windows: C:\Users\<NAME>\SimplicityStudio\SDKs\gecko_sdk

MacOS: /Users/<NAME>/SimplicityStudio/SDKs/gecko_sdk

7.1 Security Information

Security Advisories

To subscribe to Security Advisories, log in to the Silicon Labs customer portal, then select **Account Home**. Click **HOME** to go to the portal home page and then click the **Manage Notifications** tile. Make sure that 'Software/Security Advisory Notices & Product Change Notices (PCNs)' is checked, and that you are subscribed at minimum for your platform and protocol. Click **Save** to save any changes.

The following figure is an example:

The screenshot shows the 'Update Preference' form in the Silicon Labs customer portal. The form is titled 'Update Preference' and has a sub-header 'WHAT EMAILS WOULD YOU LIKE TO RECEIVE?'. Under this section, there are two categories: 'Newsletters' and 'Product Specific Notifications'. Under 'Newsletters', there are three options: 'Community Monthly Newsletter', 'Sales Newsletter', and 'Micrium Newsletter', all of which are unchecked. Under 'Product Specific Notifications', there are three options: 'Product Information and Newsletter' (unchecked), 'Software/Security Advisory Notices & Product Change Notices (PCNs)' (checked and highlighted with a red box), and 'Technical Document Updates (Release Notes, Data Sheets, etc.)' (unchecked). Below this section, there is a section titled 'SELECT THE PRODUCTS TO RECEIVE UPDATES FOR'. This section contains a list of product categories, each with a checkbox. The categories are: 'Select/Unselect All', 'Audio and Radio', 'Interface', 'Isolation', 'Modems and DAAs', 'Microcontrollers', 'Timing', 'Clocks', 'Buffers', 'Oscillators', 'CDR and PHY', 'Power over Ethernet', 'Sensors', 'TV and Video', 'Voice', 'Wireless', 'Bluetooth Classic', 'Bluetooth Low Energy', 'Proprietary', 'Wi-Fi', 'ZigBee and Thread', and 'Z-Wave'. The 'Microcontrollers' category is highlighted with a red box, and the 'Wireless' category is also highlighted with a red box. Within the 'Microcontrollers' box, the '32-bit MCUs' option is checked. Within the 'Wireless' box, the 'Proprietary' option is checked.

7.2 Support

Development Kit customers are eligible for training and technical support. Use the Silicon Laboratories web site www.silabs.com/products/mcu/32-bit to obtain information about all EFM32 Microcontroller products and services, and to sign up for product support.

You can contact Silicon Laboratories support at www.silabs.com/support



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IoT Portfolio

silabs.com/products



Simplicity Studio

silabs.com/simplicity



Quality

silabs.com/quality



Support & Community

silabs.com/community

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