



# 8-Bit MCU SDK 4.2.5.0 GA

## December, 2022

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The 8051 SDK provides infrastructure support for applications developed on 8-bit devices, and it provides interfaces with the underlying hardware. It is composed of the following modules:

- 8-Bit Device Header Files
- 8-Bit Peripheral Driver Libraries
- Sample Applications/Examples for 8-Bit Development Kits

This document covers the following SDK version:

8051 SDK 4.2.5.0 released December, 2022

### KEY FEATURES

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- Updated EFM8 board support package, IEC peripheral library, and examples, adding board compatibility for EFM8BB1, EFM8BB2, EFM8BB3, EFM8LB1, EFM8UB1, EFM8UB2 Starter Kits utilizing EFM32GG12 Board Controller

## Compatibility and Use Notices

If you are new to the Silicon Labs 8-bit SDK, see [Using This Release](#).

### Compatible Compilers:

- Keil v9.60

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# 1 New Items

## 1.1 New Device Headers

None

## 1.2 New Peripheral Driver Libraries

None

## 1.3 New Sample Applications

None

## 2 Improvements

### 2.1 Updated Device Headers

Updated EFM8 board support package providing kit specific header files, adding board compatibility for the following EFM8 starter kits:

- EFM8BB1 SLSTK2020A BRD5200B
- EFM8BB2 SLSTK2021A BRD5201B
- EFM8BB3 SLSTK2022A BRD5202B
- EFM8LB1 SLSTK 2030A BRD5300B
- EFM8UB1 SLSTK2000A BRD5000B
- EFM8UB2 SLSTK2001A BRD5001B

### 2.2 Updated Peripheral Driver Libraries

Updated IEC peripheral driver library, adding board compatibility for the following EFM8 starter kits:

- EFM8BB1 SLSTK2020A BRD5200B
- EFM8BB2 SLSTK2021A BRD5201B
- EFM8BB3 SLSTK2022A BRD5202B
- EFM8LB1 SLSTK 2030A BRD5300B
- EFM8UB1 SLSTK2000A BRD5000B
- EFM8UB2 SLSTK2001A BRD5001B

### 2.3 Updated Sample Applications

Updated EFM8BB1, EFM8BB2, EFM8BB3, EFM8LB1, EFM8UB1, and EFM8UB2 Starter Kit examples, adding board compatibility for the following EFM8 starter kits, respectively:

- EFM8BB1 SLSTK2020A BRD5200B
- EFM8BB2 SLSTK2021A BRD5201B
- EFM8BB3 SLSTK2022A BRD5202B
- EFM8LB1 SLSTK 2030A BRD5300B
- EFM8UB1 SLSTK2000A BRD5000B
- EFM8UB2 SLSTK2001A BRD5001B

### 3 Fixed Issues

None

## 4 Known Issues in the Current Release

The table below lists known issues in the latest release. Items shown in blue are links to additional information.

ID #	Description	Workaround
355966	Dropped characters on multiple calls to UART1_WriteBuffer()	Insert a short delay between any two bufferWrite calls
354781	Missing autopaging in the efm8_memory_lcd library	<a href="#">Insert SFRPAGE save and restore</a>
344029	Missing autopaging in UART1_writeBuffer()	<a href="#">Insert SFRPAGE save and restore</a>

## 5 Deprecated Items

None

## 6 Removed Items

None



## 7 Using This Release

### 7.1 Installation and Use

The 8-Bit SDK can be installed through Simplicity Studio. Installation instructions can be found in [AN1211](#).

Use the 8-bit SDK with the Simplicity Studio V5 development platform. Simplicity Studio ensures that most software and tool compatibilities are managed correctly. Install software and board firmware updates promptly when you are notified.

Documentation specific to the SDK version is installed with the SDK. API references and other information about this and earlier releases is available on <http://devtools.silabs.com/studio/doc/EFM8/software/>.

### 7.2 Support

Development Kit customers are eligible for training and technical support. You can use <https://www.silabs.com/products/mcu/8-bit> to obtain information about all Silicon Labs 8-bit products and services, and to sign up for product support.

You can contact Silicon Laboratories support at [http://www.silabs.com/support\\_](http://www.silabs.com/support_)

## 8 Legal

### 8.1 Disclaimer

Silicon Labs 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 Labs 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.

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