32-bit MCU SDK 5.10.2.0 GA

Gecko SDK Suite 3.0

October 14, 2020

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

This document covers the following SDK versions:

5.10.2.0 released October 14, 2020 (underlying platform changes only)
5.10.1.0 released September 30, 2020
5.10.0.2 released July 29, 2020

KEY FEATURES

- Sample application updates
- Added missing empty examples for EFM32/EZR32 in Simplicity Studio

Contents

1 New Items

None

2 Improvements

Changed in release 5.10.0.2

- Changed freertos_blink examples for EFM32 devices to use tickless mode configuration. The previous freertos_tickless and freertos_demo example are removed since they also demonstrate the same functionality. freertos_blink example is also added to the EFM32GG11B example list.
- Changed configuration and file inclusions in applications including Micrium OS and Segger SystemView to adapt to changes in Micrium OS and the Segger SystemView.

3 Fixed Issues

Fixed in release 5.10.1.0

- Fixed an issue where empty C/C++ examples would not be shown in Simplicity Studio for EFM32 and EZR32 parts.

4 Known Issues in the Current Release

Issues in bold were added since the previous release. If you have missed a release, recent release notes are available on https://www.silabs.com/products/software.

ID #	Description	Workaround
	Both Debug and Release build configurations of MCU examples define DEBUG_EFM=1, which enables em_assert functionality.	
	micriumos_lwip_wfx example for SLSTK3701A_EFM32GG11 is not compiling when using the Simplicity Studio IDE.	

5 Deprecated Items

None

6 Removed Items

Removed in release 5.10.0.2

- Removed all examples for EFM32G-DK3550, EFM32LG-DK3650, EFM32GG-DK3750 and EFM32WG-DK3850

7 Using This Release

The 32-bit MCU SDK v 5.10.x is optionally installed with Gecko SDK Suite v3.x in Simplicity Studio 5 for EFM32 and EZR32 products. Installation instructions are available in the Simplicity Studio 5 online User's Guide. 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..

7.1 Compatible Software

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

- IAR Embedded Workbench for ARM (IAR-EWARM) version 8.30.1
- GCC (The GNU Compiler Collection) version 7.2.1 is provided with Simplicity Studio
- Keil MDK V5.25 for ARM

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

8 Legal

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