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

This document covers the following SDK versions:

- 5.9.4.0 GA released April 22, 2020
- 5.9.3.0 GA released March 20, 2020
- 5.9.2.0 GA released February 21, 2020
- 5.9.1.0 GA released January 24, 2020
- 5.9.0.0 GA released December 13, 2019

KEY FEATURES

Sample application updates
- Integration of sleeptimer service
- New Micrium OS LwIP WFX200 example
- Bugfixes
- DK example deprecation notice
# Contents

1. New Items .......................................................................................................................................................................................... 3  
2. Improvements ..................................................................................................................................................................................... 4  
3. Fixed Issues ....................................................................................................................................................................................... 5  
4. Known Issues in the Current Release ................................................................................................................................................ 6  
5. Deprecated Items ............................................................................................................................................................................... 7  
6. Removed Items .................................................................................................................................................................................. 8  
7. Using This Release ............................................................................................................................................................................ 9  
   7.1 Compatible Software .................................................................................................................................................................. 9  
   7.2 Support ....................................................................................................................................................................................... 9  
8. Legal .................................................................................................................................................................................................  10  
   8.1 Disclaimer ................................................................................................................................................................................. 10  
   8.2 Trademark Information ............................................................................................................................................................. 10
1 New Items

*Added in release 5.9.0.0*

New Micrium OS LwIP WFX200 example for SLSTK3701A.
2 Improvements

Changed in release 5.9.0.0

Updated all sample apps using rtcdrv driver to use new sleeptimer service instead.
3 Fixed Issues

**Fixed in release 5.9.1.0**

Fixed warnings when building si72xx_wheeldemo for SLSTK3400A_EFM32HG with IAR or Keil.

**Fixed in release 5.9.0.0**

Sleep command in the micriumos_shell example was not working and has been fixed.

Fixed an issue where the rangeTest, webserver, qspi_direct and qspi_indirect examples failed to build when opened using copy sources in Simplicity Studio.
4 Known Issues in the Current Release

Both Debug and Release build configurations of MCU examples define DEBUG_EFM=1, which enables em_assert functionality.

micromium lwip wfx example for SLSTK3701A_EFM32GG11 is not compiling when using the Simplicity Studio IDE.
5 Deprecated Items

Deprecated in release 5.9.2.0

All examples for EFM32G-DK3550, EFM32LG-DK3650, EFM32GG-DK3750 and EFM32WG-DK3850 are deprecated and will be removed in a later release.
6 Removed Items

Removed in release 5.9.0.0

All nvm_simple examples removed.
7 Using This Release

The 32-bit MCU SDK 5.9.4.0 is optionally installed with Gecko SDK Suite 2.7.4.0 in Simplicity Studio for EFM32 and EZR32 products. 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, under this SDK’s Release Notes doc header.

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. You can 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

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.

Application examples described herein are for illustrative purposes only.

Silicon Labs 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 Labs 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 are not designed or authorized to be used within any Life Support System. A “Life Support System” is any product or system 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 Labs products are not designed or authorized for military applications. Silicon Labs products shall under no circumstances be used in weapons of mass destruction including (but not limited to) nuclear, biological or chemical weapons, or missiles capable of delivering such weapons.

8.2 Trademark Information

Silicon Laboratories Inc.®, Silicon Laboratories®, Silicon Labs®, SiLabs® and the Silicon Labs logo®, Bluegiga®, Bluegiga Logo®, Clockbuilder®, CMEMS®, DSPLL®, EFM®, EFM32®, EFR, Ember®, Energy Micro, Energy Micro logo and combinations thereof, “the world’s most energy friendly microcontrollers”, Ember®, EZLink®, EZRadio®, EZRadioPRO®, Gecko®, ISOmodem®, Micrium, Precision32®, ProSLIC®, Simplicity Studio®, SiPHY®, Telegesis, the Telegesis Logo®, USBXpress®, Zentri, Z-Wave and others are trademarks or registered trademarks of Silicon Labs.

ARM, CORTEX, Cortex-M0+, Cortex-M3, Cortex-M33, Cortex-M4, TrustZone, Keil and Thumb are trademarks or registered trademarks of ARM Holdings.

Zigbee® and the Zigbee logo® are registered trademarks of the Zigbee Alliance.

Bluetooth® and the Bluetooth logo® are registered trademarks of Bluetooth SIG Inc.

All other products or brand names mentioned herein are trademarks of their respective holders.