32-bit MCU SDK 6.0.2.0 GA
Gecko SDK Suite 3.1
April 7, 2021

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

This document covers the following SDK versions:

6.0.2.0 released April 7, 2021 (underlying platform changes only)
6.0.1.0 released January 27, 2021 (underlying platform changes only)
6.0.0.0 released December 9, 2020

KEY FEATURES

- Added platform examples for EFM32 series 0 and series 1 devices
- Reduced number of sample applications for EFM32 hardware kits
- Reduced pre-compiled demo list for EFM32 hardware kits

This Gecko SDK Suite release has a known security compatibility issue with one Gecko Platform component. For more information about this, as well as other 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 EmberZNet SDK, see Using This Release.

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New Items

None

Improvements

Changed in release 6.0.2.0

- Re-added sources for the “factory_demo” sample application.

Changed in release 6.0.0.0

- Renamed the sample application called “helges_demo” to “factory_demo”, to make it more descriptive.
- The following sample applications have been modified to improve integration in Simplicity Studio 5:
  - micriumos_canopen
  - micriumos_net
  - micriumos_webmic
  - si72xx_wheeldemo

Fixed Issues

None

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.si-labs.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.	

Deprecated Items

None

Removed Items

Removed in release 6.0.0.0

The following examples were removed:

biometric	lte_xbee_sms	usbdhidkbd
blink (refer to new Blink example(s))	lte_xbee_time_server	usbdloader
burtc (refer to new Sleep Timer example(s))	lte_xbee_time_server_bypass	usbdmsd
calibrate	mbedtls_aescrypt (refer to new mbedTLS example)	usbdpdmmic
can_board (refer to micriumos_canopen example)	mbedtls_ecdh (refer to new mbedTLS example)	usbdphdcglucometer
clock	mbedtls_ecdsa (refer to new mbedTLS example)	usbdtest
cpt007b	micriumos_blink (refer to new Blink example(s))	usbdvud
cpt112s	micriumos_dynamic (refer to new Blink example(s))	usbhenum
cslib	micriumos_httpcloader	usbhhidkbd
efp	micriumos_lwip_wfx	usbhloader
emlcd (refer to new MEMLCD example(s))	micriumos_shell	usbhmsdfatcon
emode (refer to new Power Manager example(s))	micriumos_usbdhidmouse	usbhtest
energy	micriumos_usbhmsc	usbxpress_echo
ezradio_per	micriumos_wifi_whiteboard	usbxpress_test_panel
ezradio_direct_rx	mpu (refer to new Simple MPU example)	userpage
ezradio_direct_tx	nandflash	vcom
ezradio_pn9	persistent_trng	watch
ezradio_simple_trx	pll	weatherstation
ezradio_trx_ack	pdm-led	wstk_vcom_bridge
ezradio_unmodulated_carrier	prs (refer to Silicon Labs' GitHub example(s))	
flasherase	pwm	
freertos_blink (refer to new Blink example(s))	powertest	
glib	qspi_direct	
gpiointerrupt	qspi_indirect	
humitemp	rangeTest	
iadc (refer to Silicon Labs' GitHub example(s))	rs232	
intttemp	rs232_isolated	
inttemp_harvesting	rs485_isolated	
inttemp_textdisplay	sensor_puck	
lcd (refer to new MEMLCD example(s))	spaceinvaders	
lcd_power_modes (refer to new MEMLCD and/or Power Manager example(s))	spectrum_analyzer	
lcsense	spi_display	
leuart (refer to new IO Stream or UARTDRV example(s))	textdisplay	
lightsense	textdisplay_printf	
lightsensefft	touch	
lte_xbee_device_cloud	usb_isolated	
	usbdcdc	
	usbdcomposite	
	usbdcompositehidkbd	

Using This Release

The 32-bit MCU SDK v 6.0.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

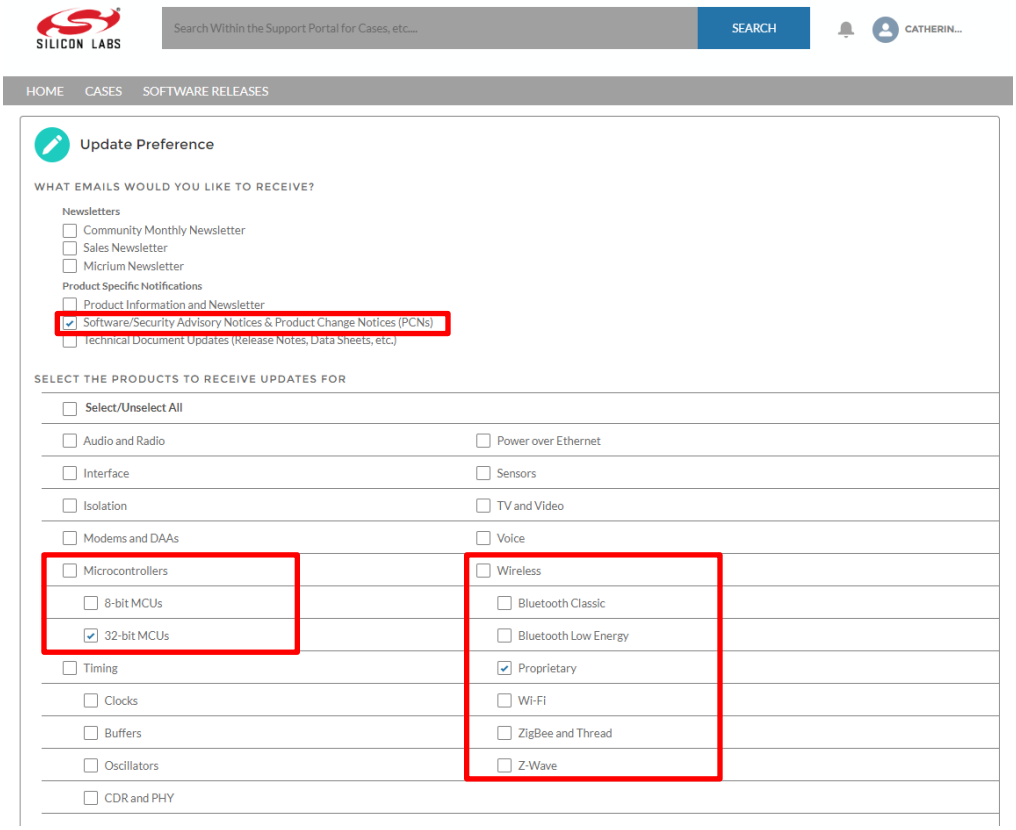
This version of the 32-bit MCU SDK is compatible with the following tool chains.

- 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 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.



7.3 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

Legal

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