



Bluetooth® Real-Time Locating Library 7.4.0.0 GA

Gecko SDK Suite 4.5

October 8, 2025

Silicon Labs is a leading vendor in Bluetooth hardware and software technologies used in products such as sports and fitness, consumer electronics, beacons, and smart home applications.

The Real-Time Locating (RTL) library contains features for Angle of Arrival estimation and spatial positioning. The software library comes with a C-programming language API for Windows (x86_64) and Linux (ARM Cortex A, x86_64) hosts.

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.

The RTL Library is released with the Bluetooth SDK. These release notes cover the following version(s):

Real-Time Locating Library 7.4.0.0 in Bluetooth SDK 7.4.0.0 released on October 8, 2025 (underlying code 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).
- Underlying code changes only

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 Installation and Use 9

7.2 Support..... 9

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).

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.

2 Improvements

None.

3 Fixed Issues

None.

4 Known Issues in the Current Release

Issues in bold were added since the previous release.

ID #	Description	Workaround
375152	In heavy multipath conditions, the line-of-sight signal is not always detected correctly. In some cases this may mean large errors in both azimuth and elevation readings.	None

5 Deprecated Items

None.

6 Removed Items

None.

7 Using This Release

7.1 Installation and Use

For instructions on developing with the RTL library, see [AN1296: Application Development with Silicon Labs' RTL Library](#) and the API reference included with the documentation installed through Simplicity Studio in the Bluetooth SDK.

7.2 Support

Development Kit customers are eligible for training and technical support. Use the [Silicon Labs Bluetooth LE web page](#) to obtain information about all Silicon Labs Bluetooth products and services, and to sign up for product support.

Contact Silicon Laboratories support at <http://www.silabs.com/support> or through links on the Simplicity Studio Welcome page.

Simplicity Studio

One-click access to MCU and wireless tools, documentation, software, source code libraries & more. Available for Windows, Mac and Linux!



IoT Portfolio
www.silabs.com/iot



SW/HW
www.silabs.com/simplicity



Quality
www.silabs.com/quality



Support & Community
www.silabs.com/community

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 to the product information, specifications, and descriptions herein, and does not give warranties as to the accuracy or completeness of the included information. Without prior notification, Silicon Labs may update product firmware during the manufacturing process for security or reliability reasons. Such changes will not alter the specifications or the performance of the product. Silicon Labs shall have no liability for the consequences of use of the information supplied in this document. This document does not imply or expressly grant any license to design or fabricate any integrated circuits. The products are not designed or authorized to be used within any FDA Class III devices, applications for which FDA premarket approval is required or Life Support Systems without the specific written consent of Silicon Labs. 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. Silicon Labs disclaims all express and implied warranties and shall not be responsible or liable for any injuries or damages related to use of a Silicon Labs product in such unauthorized applications.

Trademark Information

Silicon Laboratories Inc., Silicon Laboratories®, Silicon Labs®, SiLabs® and the Silicon Labs logo®, Bluegiga®, Bluegiga Logo®, EFM®, EFM32®, EFR, Ember®, Energy Micro, Energy Micro logo and combinations thereof, "the world's most energy friendly microcontrollers", Redpine Signals®, WiSeConnect, n-Link, EZLink®, EZRadio®, EZRadioPRO®, Gecko®, Gecko OS, Gecko OS Studio, Precision32®, Simplicity Studio®, Telegesis, the Telegesis Logo®, USBXpress®, Zentri, the Zentri logo and Zentri DMS, Z-Wave®, and others are trademarks or registered trademarks of Silicon Labs. ARM, CORTEX, Cortex-M3 and THUMB are trademarks or registered trademarks of ARM Holdings. Keil is a registered trademark of ARM Limited. Wi-Fi is a registered trademark of the Wi-Fi Alliance. All other products or brand names mentioned herein are trademarks of their respective holders.



Silicon Laboratories Inc.
400 West Cesar Chavez
Austin, TX 78701
USA

www.silabs.com