

Z-Wave and Z-Wave Long Range 700/800 SDK 7.19.0.0 Pre-Certified GA Gecko SDK Suite 4.2 December 14, 2022

Z-Wave and Z-Wave Long Range 700/800 are designed to meet the demands of the future smart home, where increasing needs for more sensors and battery-operated devices require both long range and low power. Context-aware environments are the next evolution in the smart home market, and they require technologies that have been optimized specifically for these applications.

100% Interoperable: Every product in the Z-Wave ecosystem works with every other product, regardless of type, brand, manufacturer or version. No other smart home/IoT protocol can make this claim.

Best-In-Class Security: Z-Wave's Security 2 (S2) framework provides end-to-end encryption and the most advanced security for smart home devices and controllers. Homes with S2 Z-Wave devices are virtually un-hackable.

SmartStart Easy Installation: SmartStart radically simplifies the installation of smart devices by using QR code scans for uniform, trouble-free setup. Devices and systems can be pre-configured dramatically easing deployments.

Backwards-Compatible: Z-Wave certification mandates backward-compatibility. The first Z-Wave devices on the market, more than ten years old, still perform as intended in networks with the latest Z-Wave technologies.

For more information about the certification status of Z-Wave and Z-Wave Long Range 700/800 SDK v7.19.0 Pre-Certified GA, see section 10 Product Life Cycle and Certification.

These release notes cover SDK version(s):

7.19.0.0 Pre-Certified GA released December 14, 2022



KEY FEATURES

- Simplified application development due to 80% reduction in application code lines
- Advanced configuration for Command Classes and Z-Wave Application Framework
- Improved documentation to better support development from idea to certification
- Z-Wave Long Range Dynamic Channel selection algorithm implemented
- Z-Wave Alpha release on radio boards BRD4400B/4401B
- Simplicity Studio now has Pin Tool support for Z-Wave radio boards
- Important_changes.md that contains all the breaking API changes introduced since last release
- LTO enabled in released software
- Tamper protection now available for Z-Wave
- S0 takes now advantage of the security features of SE
- New PC-based Controller v5.54 release
- Z-Wave Source Code available for Z-Wave Alliance members
- Improved 800 SDK demo experience independent of Simplicity Studio

Compatibility and Use Notices

For more information about security updates and notices, see the Security chapter of the Gecko Platform Release notes installed with this SDK or on the <u>Silicon Labs Release Notes page</u>. 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 Z-Wave 700/800 SDK, see section 9 Using This Release.

Contents

1	Sup	ported Radio Boards	5
2	Z-W	/ave Protocol	7
	2.1	New Items	7
	2.2	Improvements	7
	2.3	Fixed Issues	7
	2.4	Known Issues in the Current Release	7
	2.5	Deprecated Items	8
	2.6	Removed Items	8
3	Z-W	/ave Plus V2 Application Framework	9
	3.1	New Items	9
	3.2	Improvements	9
	3.3	Fixed Issues	9
	3.4	Known Issues in the Current Release	9
	3.5	Deprecated Items	9
	3.6	Removed Items	9
4	Cert	tified Applications	10
	4.1	Door Lock Key Pad	10
	4.1.1	1 New Items	10
	4.1.2	2 Improvements	10
	4.1.3	3 Fixed Issues	10
	4.1.4	4 Known Issues in the Current Release	10
	4.1.	5 Deprecated Items	10
	4.1.6	6 Removed Items	10
	4.2	LED Bulb	10
	4.2.1	1 New Items	10
	4.2.2	2 Improvements	10
	4.2.3	3 Fixed Issues	10
	4.2.4	4 Known Issues in the Current Release	10
	4.2.	5 Deprecated Items	10
	4.2.6	6 Removed Items	11
	4.3	Power Strip	11
	4.3.	1 New Items	11
	4.3.2	2 Improvements	11
	4.3.3	3 Fixed Issues	11
	4.3.4	4 Known Issues in the Current Release	11
	4.3.5	5 Deprecated Items	11

4.3	3.6	Removed Items	11
4.4	Sen	sor PIR	11
4.4	4.1	New Items	11
4.4	4.2	Improvements	11
4.4	4.3	Fixed Issues	11
4.4	4.4	Known Issues in the Current Release	11
4.4	4.5	Deprecated Items	12
4.4	4.6	Removed Items	12
4.5	Swit	ch On/Off	12
4.	5.1	New Items	12
4.8	5.2	Improvements	12
4.8	5.3	Fixed Issues	12
4.8	5.4	Known Issues in the Current Release	12
4.8	5.5	Deprecated Items	12
4.8	5.6	Removed Items	12
4.6	Wall	Controller	12
4.6	6.1	New Items	12
4.6	6.2	Improvements	12
4.6	6.3	Fixed Issues	12
4.6	5.4	Known Issues in the Current Release	12
4.6	6.5	Deprecated Items	13
4.6	6.6	Removed Items	13
5 Pr	e-Certi	ied Applications	14
5.1	Mult	ilevel Sensor	14
5.1	1.1	New Items	14
5.1	1.2	Improvements	14
5.1	1.3	Fixed Issues	14
5.1	1.4	Known Issues in the Current Release	14
5.1	1.5	Deprecated Items	14
5.1	1.6	Removed Items	14
5.2	Key	Fob Controller	14
5.2	2.1	New Items	14
5.2	2.2	Improvements	14
5.2	2.3	Fixed Issues	14
5.2	2.4	Known Issues in the Current Release	14
5.2	2.5	Deprecated Items	15
5.2	2.6	Removed Items	15

6	Se	erial AP	I Applications1	6
	6.1	Seri	al API Controller1	6
	6.	1.1	New Items1	6
	6.	1.2	Improvements1	6
	6.	1.3	Fixed Issues1	6
	6.	1.4	Known Issues in the Current Release1	6
	6.	1.5	Deprecated Items1	6
	6.	1.6	Removed Items1	6
7	Im	nportan	t Changes1	7
8	0	pen So	urce Software1	8
9	U	sing Th	is Release1	9
	9.1	Insta	allation and Use1	9
	9.2	Sec	urity Information1	9
	9.3	Sup	port2	0
10		Produc	zt Life Cycle and Certification2	1
11		Legal .		2
	11.1	Disc	laimer2	2
	11.2	Trac	lemark Information2	2

1 Supported Radio Boards

This section describes the radio boards supported by the certified and pre-certified applications for the 700 and 800 Series, respectively.

Series	Radio Board	Description	Applications
800	BRD4204A	EFR32ZG23: ZW-LR, SoC & 14 dBm	Serial API using BRD4002A
800	BRD4204B	EFR32ZG23: ZW-LR, SoC & 14 dBm	Serial API using BRD4002A
800	BRD4204C	EFR32ZG23: ZW-LR, SoC, 14 dBm & Secure Vault High	Serial API using BRD4002A
800	BRD4204D	EFR32ZG23: ZW-LR, SoC, 14 dBm, Secure Vault High & external 32kHz crystal mounted	Serial API using BRD4002A
800	BRD4205A	ZGM230SA: ZW-LR, SiP, 14 dBm & Secure Vault Mid	Applications using BRD4002A/BRD8029A
800	BRD4205B	ZGM230SB: ZW-LR, SiP, 14 dBm & Secure Vault High.	Applications using BRD4002A/BRD8029A
800	BRD4210A	ZGM230S: ZW-LR, SoC, 14 dBm & Secure Vault High	Applications using BRD4002A/BRD8029A
700	BRD4200A	ZGM130S: SiP & 14 dBm	Applications using BRD4002A/BRD8029A
700	BRD4201A	EFR32ZG14: SoC & 14 dBm	Serial API using BRD4002A
700	BRD4202A	ZGM130S: SiP, 14 dBm & no SAW filters	Applications using BRD4002A/BRD8029A
700	BRD4206A	EFR32ZG14: ZW-LR, SoC & 14 dBm	Serial API using BRD4002A
700	BRD4207A	ZGM130S: ZW-LR, SiP & 14 dBm	Applications using BRD4002A/BRD8029A
700	BRD4208A	EFR32ZG14: ZW-LR, SoC & 20 dBm	Serial API using BRD4002A
700	BRD4209A	ZGM130S: ZW-LR, SoC & 20 dBm	Applications using BRD4002A/BRD8029A

Table	1-1.	Supported	Radio	Boards.
IUNIC		oupportou	ittaaio	Dourao.

The applications in the above table need a radio board in combination with BRD4002A – Wireless Starter Kit Mainboard (WSTK) and BRD8029A – Buttons and LEDs Expansion Board. Notice that BRD4002A is compatible with the old BRD4001A mainboard that is going to be deprecated. The Serial APIs in the above table only need a radio board and a BRD4002A – Wireless Starter Kit Mainboard (WSTK). Refer to *INS14278: How to Use Certified Apps* and *INS14816: How to Use Pre-Certified Apps*, for details.

ZW-LR indicates that the radio board supports both Z-Wave and Z-Wave Long Range. 14/20 dBm indicates the transmit power of the radio board. Secure Vault is an industry-leading suite of state-of-the-art security features that address escalating Internet of Things (IoT) threats.

Series	Radio Board	OPN Description
800	BRD4204A	EFR32ZG23A010F512GM48
800	BRD4204B	EFR32ZG23A010F512GM48
800	BRD4204C	EFR32ZG23B010F512IM48
800	BRD4204D	EFR32ZG23B010F512IM48
800	BRD4205A	ZGM230SA27HNN0
800	BRD4205B	ZGM230SB27HGN2
800	BRD4210A	EFR32ZG23B020F512IM48
700	BRD4200A	ZGM130S037HGN2
700	BRD4201A	EFR32ZG14P231F256GM32
700	BRD4202A	ZGM130S037HGN2
700	BRD4206A	EFR32ZG14P231F256GM32
700	BRD4207A	ZGM130S037HGN2
700	BRD4208A	EFR32ZG14P731F256GM32
700	BRD4209A	EFR32ZG13P531F512GM48

Table 1-2. Radio Boards versus OPNs.

The table above shows the Radio Boards and OPN relation. This table can be used to clarify the compatibility of the prebuilt binaries offered in the GSDK. The prebuilt binaries are built targeting boards and not OPNs. More OPNs are available than the ones listed above. For those OPNs the prebuilt binaries will not work. The desired application must be built targeting the specific OPN instead.

2 Z-Wave Protocol

Be aware that 800 products based on SDK v7.17.x do not support upgrade of Secure Element firmware over the air (OTA). However, a migration path exists to upgrade both main bootloader and Secure Element firmware to enable support of this feature. See *INS14895: Instruction for How to Use Tiny App* regarding the upgrade path. The 800-based SDK v7.18.x supports upgrade of Secure Element firmware over the air (OTA).

2.1 New Items

The 8 kB reduction of the Z-Wave protocol NVM3 file system has an impact when making OTA firmware update on 800-based applications deployed on version 7.17.2 and earlier. To make an OTA firmware update from 7.17.2 to 7.18.1/2 requires that 7.18.1/2 is modified to keep the same NVM3 protocol size as 7.17.2. This can be configured by the define NVM3_DEFAULT_NVM_SIZE when building 7.18.1/2.

2.2 Improvements

None

2.3 Fixed Issues

Fixed in release 7.19.0 Pre-Certified GA

ID #	Description
1018947	SerialAPI: SERIAL_API_SETUP_CMD_MAX_LR_TX_PWR_GET does not reflect actual tx power if the power is set to an illegal value.
1063249	Inclusion can occasional fail when a lot of FLiRS devices are present in the network. In networks with 20+ FLiRS nodes it is recommended to set the ADD_NODE_OPTION_NO_FL_SEARCH when starting add mode on a controller. When inclusion is completed successfully a call to FUNC_ID_ZW_REQUEST_NODE_NEIGHBOR_UPDATE should be made to ensure that the routing table is updated correctly for the newly included node.
1062862	SAW filter pins are not set correctly in SerialAPI.
1061965	Singlecast frame is not send after failed beaming attempt on LR.
1027062	Enabled watchdog could in rare cases a controller during a route calculation in case it takes more than 2 seconds.
1040308	End nodes could unintentionally reset during power power down if the power down process is interrupted by network traffic.
1028809	Wrong setting of LETIM0 OUT0 location for LED2 and LED3 in extension_board_8029a_efr32zg23.h (800 series).
1026711	After OTA then RTCC retention registers are erased.
1018947	SERIAL_API_SETUP_CMD_MAX_LR_TX_PWR_GET does not reflect actual Tx power.
1015803	Unable to set max Tx power in ZWLR.
752879	Enabling LTO triggered bugs.

2.4 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 <u>Silicon</u> <u>Labs Release Notes page</u>

ID #	Description	Workaround
753756	Network Wide Inclusion (NWI) of 500-based apps doesn't work through 700/800 repeaters.	NWI works at second attempt.
355095	In small networks Assign Return Routes will only generate direct range or one-hop routes even though multi-hop routes are possible.	None
361273	Transport Service is used when it is necessary to split a frame in two parts due to size. However, Transport Service does not forward RSSI information from the lower layers but only routing information. The RSSI value is the difference between LWR RSSI and background RSSI. As a consequence it is not possible to use RSSI for large frames handled by Transport Service in a network health calculation.	None

2.5 Deprecated Items

None

2.6 Removed Items

3 Z-Wave Plus V2 Application Framework

3.1 New Items

None

3.2 Improvements

For a detailed description of application development using the Z-Wave Plus V2 Framework, refer to INS14259: Z-Wave Plus V2 Application Framework SDK7.

A porting guide is also available for customers who want to migrate 800 hardware. The guide contains a detailed example of how to port a non-component/700-based Switch On/Off App (7.16.3) to a component/800-based Switch On/Off App (7.17.0). See *APL14836: Application Note for Porting Z-Wave Appl. SW from 700 to 800 hardware.*

More mandatory logic was moved from the application to ZAF. This contributed to bringing down the total number of lines in the application. This should decrease time to market for new products.

3.3 Fixed Issues

Fixed in release 10.19.0 Pre-Certified GA

ID #	Description
1062840	Configuration Command Class handler issue.
1055556	When receiving association set frame the nodes are catched and if the number of nodes exceeds the maximum storage limit flushing is aborted.
1039730	S2 sequence number does not retain count during OTA.
820843	Project cannot build after installing command class component.

3.4 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 the <u>Silicon</u> <u>Labs Release Notes page</u>

ID #	Description	Workaround
369430	All S2 multicast frames are sent using verified delivery S2_TXOPTION_VERIFY_DELIVERY whether or not a response is expected.	Change source code depending on the frame sent.
473723	True status doesn't report correctly if there are multiple instances like colors (in Color Switch CC), endpoints, etc.	None

3.5 Deprecated Items

None

3.6 Removed Items

4 Certified Applications

The certified applications based on v7.x.1+ will be formally certified by a certification house. However, the first release (v7.x.0) will only contain pre-certified applications based on a certification test using CTT v3. Refer to *INS14278: How to Use Certified Apps* for details.

4.1 Door Lock Key Pad

4.1.1 New Items

None

4.1.2 Improvements

None

4.1.3 Fixed Issues

None

4.1.4 Known Issues in the Current Release

None

4.1.5 Deprecated Items

None

4.1.6 Removed Items

None

4.2 LED Bulb

4.2.1 New Items

None

4.2.2 Improvements

None

4.2.3 Fixed Issues

None

4.2.4 Known Issues in the Current Release

None

4.2.5 Deprecated Items

4.2.6 Removed Items

None

4.3 Power Strip

4.3.1 New Items

None

4.3.2 Improvements

None

4.3.3 Fixed Issues

None

4.3.4 Known Issues in the Current Release

None

4.3.5 Deprecated Items

None

4.3.6 Removed Items

None

4.4 Sensor PIR

4.4.1 New Items

None

4.4.2 Improvements

None

4.4.3 Fixed Issues

None

4.4.4 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 the <u>Silicon</u> <u>Labs Release Notes page</u>

ID #	Description	Workaround
758906	Wakeup current has increased on both 700 and 800 SoCs. Caused by an unintentional IR calibration performed at start-up.	None

4.4.5 Deprecated Items

None

4.4.6 Removed Items

None

4.5 Switch On/Off

4.5.1 New Items

None

4.5.2 Improvements

None

4.5.3 Fixed Issues

None

4.5.4 Known Issues in the Current Release

None

4.5.5 Deprecated Items

None

4.5.6 Removed Items

None

4.6 Wall Controller

4.6.1 New Items

None

4.6.2 Improvements

None

4.6.3 Fixed Issues

None

4.6.4 Known Issues in the Current Release

4.6.5 Deprecated Items

None

4.6.6 Removed Items

5 Pre-Certified Applications

The pre-certified applications will not be formally certified but certification tests have been performed based on CTT v3. Refer to *INS14816: How to Use Pre-Certified Apps* for details.

5.1 Multilevel Sensor

5.1.1 New Items

None

5.1.2 Improvements

None

5.1.3 Fixed Issues

None

5.1.4 Known Issues in the Current Release

None

5.1.5 Deprecated Items

None

5.1.6 Removed Items

None

5.2 Key Fob Controller

This application is new as of 7.18.x. It offers an example of how to create a key fob that is able to include and control other Z-Wave nodes. One use case could be a kit consisting of a key fob and a battery-driven shade. As the key fob can add more devices to its network, it opens the possibility for adding additional shades.

5.2.1 New Items

None

5.2.2 Improvements

None

5.2.3 Fixed Issues

None

5.2.4 Known Issues in the Current Release

5.2.5 Deprecated Items

None

5.2.6 Removed Items

6 Serial API Applications

Beginning with version 7.16, when backing up and restoring a SerialAPI via the FUNC_ID_NVM_BACKUP_RESTORE, the SerialAPI will automatically upgrade the protocol non-volatile memory (NVM) to the latest version. Any backup made of a 7.16 or later SerialAPI can be restored to its original version or to a later version of the SerialAPI without any manual upgrade of the protocol NVM being necessary.

The serial interface is unchanged in version 8.

As of SDK version 7.18.x, Serial API is available as source code as well as binary. This opens the possibility for building customized versions of Serial API with different pin configuration or additional hardware utilization. A use case might be to use SPI instead of UART for serial communication.

No application using Serial API End Device is available on the GSDK.

6.1 Serial API Controller

6.1.1 New Items

None

6.1.2 Improvements

None

6.1.3 Fixed Issues

None

6.1.4 Known Issues in the Current Release

None

6.1.5 Deprecated Items

None

6.1.6 Removed Items

7 Important Changes

Starting in version 7.19, API-breaking changes have been documented in the document "Important_changes.md" available in GSDK. Please check it for a detailed description of changes introduced in the latest release.

HTML documentation has been added to GSDK and can be found in Simplicity Studio, Documentation section, under "Z-Wave zipped doxygen documentation". Location of this document is <SDK>/protocol/z-wave/ZAF/doc/z-wave-html-docs.zip.

8 Open Source Software

Z-Wave is using FreeRTOS as the underlying OS, and it is based on FreeRTOS Kernel V10.4.3.

9 Using This Release

This release contains the following

- Z-Wave Plus V2 Application Framework
- Z-Wave Certified Applications for a broad range of smart home applications
- Z-Wave Protocol and Serial API Applications

If you are a first-time user, Z-Wave documentation is installed with the SDK. See INS14280: Z-Wave Getting Started for End Devices, INS14278: How to Use Certified Apps in Z-Wave, and INS14281: Z-Wave Getting Started for Controller Devices for instructions.

This SDK depends on a 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, PSA, and mbedTLS. Gecko Platform release notes are available through Simplicity Studio's Launcher Perspective.

9.1 Installation and Use

Order a Z-Wave Wireless Starter kit. The kit offers the easiest and fastest way to start evaluation and development of your own Z-Wave mesh application. It provides a single world-wide development kit for both end devices and gateways with multiple radio boards, with which developers can create a mesh network and evaluate the Z-Wave module.

The Z-Wave and Z-Wave Long Range 700/800 SDK is provided as part of the Gecko SDK (GSDK), the suite of Silicon Labs SDKs. To quickly get started with the GSDK, install <u>Simplicity Studio 5</u>, which will set up your development environment and walk you through GSDK installation. Simplicity Studio 5 includes everything needed for IoT product development with Silicon Labs devices, including a resource and project launcher, software configuration tools, full IDE with GNU toolchain, and analysis tools. Installation instructions are provided in the online <u>Simplicity Studio 5 User's Guide</u>.

Alternatively, Gecko SDK may be installed manually by downloading or cloning the latest from GitHub. See <u>https://github.com/SiliconLabs/gecko_sdk</u> for more information.

Simplicity Studio installs the GSDK by default in:

- (Windows): C:\Users\<NAME>\SimplicityStudio\SDKs\gecko_sdk
- (MacOS): /Users/<NAME>/SimplicityStudio/SDKs/gecko_sdk

To implement a specific application, Silicon Labs recommends starting with one of the existing pre-certified apps with the desired Role Type.

9.2 Security Information

Secure Vault Integration

This version of the stack are using secure vault interface for key management of asymmetric keys (ECC Curve 25519) and Symmetric keys (AES).

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.

Search Within the Support Portal for Ca	ses, etc	SEARCH	CATHERIN
IOME CASES SOFTWARE RELEASES			
Vpdate Preference			
WHAT EMAILS WOULD YOU LIKE TO RECEIVE?			
Newsletters			
Community Monthly Newsletter			
Sales Newsletter			
Micrium Newsletter Product Specific Notifications			
Product Specific Notifications Product Information and Newsletter			
Software/Security Advisory Notices & Product Change No			
Technical Document Updates (Release Notes, Data Sheets, International Document Updates (Release Notes, Data Sheets)	etc.)		
SELECT THE PRODUCTS TO RECEIVE UPDATES FOR			
Select/Unselect All			
Audio and Radio	Power over Ethernet		
Interface	Sensors		
Isolation	TV and Video		
Modems and DAAs	Uvice		
Microcontrollers	U Wireless		
8-bit MCUs	Bluetooth Classic		
☑ 32-bit MCUs	Bluetooth Low Energy		
Timing	Proprietary		
	Wi-Fi		
Buffers	ZigBee and Thread		
Oscillators	Z-Wave		
CDR and PHY			

9.3 Support

Development Kit customers are eligible for training and technical support.

See support resources and contact Silicon Laboratories support at http://www.silabs.com/support.

10 Product Life Cycle and Certification

Silicon Labs will add new features based on market requirements and continuously improve the Z-Wave Protocol to position the Z-Wave Ecosystem. The Z-Wave Protocol Life Cycle is a process to provide rapid innovation, new features and robust matured protocol release to Z-Wave Partners. The Z-Wave Protocol Life Cycle defines the maturation process of Z-Wave Protocol generations and consist of three phases divided in five Life Cycle stages. A change in the Z-Wave SDK utilized for a specific device does require recertification; however, the type of certification required, the amount of testing needed, and the associated fees depend on the scope of the change. Refer to Z-Wave Alliance home page https://z-wavealliance.org/ for details.

Series	SDK Version	Release Date [DD-MMM-YYYY]
700/800	7.19.0 Pre-Certified GA	14-DEC-2022
700/800	7.18.3 GA	19-OCT-2022
700/800	7.18.2 GA	28-SEP-2022
700/800	7.18.1 GA	17-AUG-2022
700/800	7.18.0 Pre-Certified GA	08-JUN-2022
700/800	7.17.2 GA	09-MAR-2022
700/800	7.17.1 Pre-Certified GA	28-JAN-2022
700/800	7.17.0 Pre-Certified GA	08-DEC-2021
700	7.16.3 GA	13-OCT-2021
700	7.16.2 GA	08-SEP-2021
700	7.16.1 GA	21-JUL-2021
700	7.16.0 Pre-Certified GA	16-JUN-2021
700	7.15.4 GA	07-APR-2021
700	7.15.2 Pre-Certified GA	27-JAN-2021
700	7.15.1 Pre-Certified GA	09-DEC-2020
700	7.14.3 GA	14-OCT-2020
700	7.14.2 GA	09-SEP2020
700	7.14.1 GA	29-JUL-2020
700	7.14.0 Beta	24-JUN-2020
700	7.13.11 GA	02-NOV-2022
700	7.13.10 GA	18-AUG-2021
700	7.13.9 GA	03-MAR-2021
700	7.12.2 GA	26-NOV-2019
700	7.12.1 GA	20-SEP-2019
700	7.11.1 GA	12-JUL-2019
700	7.11.0 GA	29-MAR-2019

Table 10-1. Z-Wave SDK Release History

11 Legal

11.1 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 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. Note: This content may contain offensive terminology that is now obsolete. Silicon Labs is replacing these terms with inclusive language wherever possible. For more information, visit www.silabs.com/about-us/inclusive-lexicon-project

11.2 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®, Gecko OS, Gecko OS Studio, ISOmodem®, Precision32®, ProSLIC®, Simplicity Studio®, SiPHY®, 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.