



CS108 Firmware and Demo App Software Release Notes

2023 July 11

Firmware Release Notes:

- 1. Silicon Lab IC Firmware**
- 2. Bluetooth IC Firmware**
- 3. RFID Firmware**

**Demo App Software Github Site Links (Release Notes
and Source Codes for Download)**

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Silicon Lab IC Firmware

SiliconLab Image App Release Notes		
Release version	Changes	Date
1.0.17	<ul style="list-style-type: none"> ● Add inventory trigger mode control. ● Works with Bluetooth V1.0.19 and later only 	2023-04-24
1.0.16	<ul style="list-style-type: none"> ● Add auto report of trigger state command. 	2021-08-11
1.0.15	<ul style="list-style-type: none"> ● For main board version 2.7 or after ● Cancel battery fault detection 	2020-05-29
1.0.14	<ul style="list-style-type: none"> ● For main board version 2.7 or after ● Add I2C command for STUSB. ● Add offset to battery voltage value. 	2020-04-09
1.0.13	<ul style="list-style-type: none"> ● Remove interrupt save/restore in USB send packet 	2019-08-30
1.0.12	<ul style="list-style-type: none"> ● Fix a possible memory overflow 	2019-08-26
1.0.11	<ul style="list-style-type: none"> ● Add Siliconlab force reset command 	2019-08-22
1.0.10	<ul style="list-style-type: none"> ● Improve USB disconnection detection 	2019-08-16
1.0.9	<ul style="list-style-type: none"> ● Fix USB hang during barcode scanning 	2017-11-21
1.0.8	<ul style="list-style-type: none"> ● Add sequence number for RFID packet 	2017-11-20
1.0.7	<ul style="list-style-type: none"> ● Add system reset if USB is disconnected 	2017-08-28
1.0.6	<ul style="list-style-type: none"> ● Add trigger button to turn on BT ● Add P3.0 VBUS control 	2017-08-18
1.0.5	<ul style="list-style-type: none"> ● Fix CRC error of long packet 	2017-06-28
1.0.4	<ul style="list-style-type: none"> ● Add EEPROM read/write serial no., model and keys 	2017-05-19
1.0.3	<ul style="list-style-type: none"> ● Fix trigger button current leakage 	2017-05-17
1.0.2	<ul style="list-style-type: none"> ● Add auto battery reporting function 	2017-04-26
1.0.1	<ul style="list-style-type: none"> ● Power off RFID when BT disconnected 	2017-03-17
1.0.0	<ul style="list-style-type: none"> ● Initial version 	2017-03-06

SiliconLab Bootloader Release Notes

Release version	Changes	Date
0.0.0	<ul style="list-style-type: none">Initial version	2017-03-06

Bluetooth IC Firmware:

Bluetooth CC2541 Bluetooth IC Image App Release Notes		
Release version	Changes	Date
1.0.20	<ul style="list-style-type: none"> Add MAC address information to system ID of device information service (0x180A) 	2023-07-07
1.0.19	<ul style="list-style-type: none"> Move inventory trigger mode control to SiliconLab IC Works with Silicon Lab 1.0.17 and later only 	2023-04-24
1.0.17	<ul style="list-style-type: none"> Fix incomplete packet sending in some rare cases. 	2021-08-24
1.0.16	<ul style="list-style-type: none"> Add hopping test API. 	2020-10-22
1.0.15	<ul style="list-style-type: none"> Update to BLE library version 1.5.0 with Bluetooth 5.0 protocol but only LE 1M PHY 	2019-09-20
1.0.14	<ul style="list-style-type: none"> Fix barcode trigger mode 	2018-08-24
1.0.13	<ul style="list-style-type: none"> Fix barcode vibration mode 	2018-08-17
1.0.12	<ul style="list-style-type: none"> Modify vibrator tag inventory mode Add trigger release mode 	2018-08-16
1.0.11	<ul style="list-style-type: none"> Modify vibrator on command 	2018-05-28
1.0.10	<ul style="list-style-type: none"> Enable overlapped processing 	2018-04-23
1.0.9	<ul style="list-style-type: none"> Change connection interval 15-15 	2018-04-19
1.0.8	<ul style="list-style-type: none"> Change connection interval 15-30 	2018-04-18
1.0.7	<ul style="list-style-type: none"> Fix BT packet length bug 	2018-04-17
1.0.6	<ul style="list-style-type: none"> Add BT disconnection command 	2018-04-10
1.0.5	<ul style="list-style-type: none"> Add vibrator on/off commands Add second send of trigger released packet. 	2018-04-06
1.0.4	<ul style="list-style-type: none"> Change BT discoverable power on default to on 	2017-11-09
1.0.3	<ul style="list-style-type: none"> Add trigger button to turn on BT 	2017-08-11
1.0.2	<ul style="list-style-type: none"> Add raw barcode command support 	2017-04-25
1.0.1	<ul style="list-style-type: none"> Power off RFID when BT disconnected 	2017-03-17
1.0.0	<ul style="list-style-type: none"> Initial version 	2017-03-06

BT CC2541 Bootloader Release Notes

Release version	Changes	Date
0.0.0	<ul style="list-style-type: none">Initial version	2017-03-06

RFID Firmware

RFID Application: R2000 MAC Firmware on Atmel IC Release Notes		
Release version	Changes	Date
2.6.44	<ul style="list-style-type: none"> Add RSSI filtering function 	2022-02-23
2.6.43	<ul style="list-style-type: none"> Add Brand ID checking for CS463 only 	2021-09-20
2.6.42	<ul style="list-style-type: none"> Add EM4325 GetSensorData command. 	2021-09-09
2.6.41	<ul style="list-style-type: none"> Add FM13DT160 tag IC commands 	2020-11-30
2.6.38	<ul style="list-style-type: none"> Fix channel 4 power for -8 country 	2020-09-18
2.6.37	<ul style="list-style-type: none"> Fix test antenna index 	2020-08-03
2.6.36	<ul style="list-style-type: none"> Add TXON = 0 for continuous TX 	2020-07-30
2.6.35	<ul style="list-style-type: none"> Fix target power upper limit setting 	2020-07-07
2.6.34	<ul style="list-style-type: none"> Fix USB hang 	2020-01-13
2.6.33	<ul style="list-style-type: none"> Fix GET_SERIAL command no response 	2020-01-10
2.6.32	<ul style="list-style-type: none"> Add special power limit for -8 reader 	2019-12-19
2.6.31	<ul style="list-style-type: none"> Add special checking for Brand ID support 	2019-12-04
2.6.30	<ul style="list-style-type: none"> Add Ucode8 Brand ID support 	2019-12-02
2.6.29	<ul style="list-style-type: none"> Add TAM2 ProtMode 2 or 3 support 	2019-09-30
2.6.28	<ul style="list-style-type: none"> Add CS203I support 	2019-09-05
2.6.27	<ul style="list-style-type: none"> Add port index in compact mode packet 	2019-09-04
2.6.26	<ul style="list-style-type: none"> Add CS206 & CS468J support 	2019-08-14
2.6.25	<ul style="list-style-type: none"> Add 0x336 mac error report in inventory_cycle_begin packet. Add CW hold time delay in TAGMSK_DESC_CFG register 	2019-07-02
2.6.24	<ul style="list-style-type: none"> Add 0.5ms delay for RFMicro model 402h read RSSI command 	
2.6.23	<ul style="list-style-type: none"> Return all EPCs for multi-bank inventory 	2019-04-02
2.6.22	<ul style="list-style-type: none"> Add 0.5ms delay for RFMicro model 403h read RSSI command 	2019-03-06
2.6.21	<ul style="list-style-type: none"> Add handling of RF Micron Temperature Tag 	2019-02-20
2.6.20	<ul style="list-style-type: none"> Cancel power up packet for CS108 	2018-09-20
2.6.18	<ul style="list-style-type: none"> Change default maximum allowed target power to 	2018-08-27

	330	
2.6.17	<ul style="list-style-type: none"> Fix custom maximum allowed target power 	2018-08-23
2.6.16	<ul style="list-style-type: none"> Change register 0x0900 default value to 0x0000 	2018-07-23
2.6.15	<ul style="list-style-type: none"> Add power up packet type 0xF000 for CS108 	2018-07-09
2.6.14	<ul style="list-style-type: none"> Fix read/write problem 	2018-04-30
2.6.13	<ul style="list-style-type: none"> Fix multi-bank inventory problem when tag delay > 0 	2018-04-27
2.6.12	<ul style="list-style-type: none"> Fix tag delay problem 	2018-04-18
2.6.11	<ul style="list-style-type: none"> Add inventory cycle delay setting 	2018-04-16
2.6.10	<ul style="list-style-type: none"> Fix compact mode inventory bug 	2018-04-12
2.6.09	<ul style="list-style-type: none"> Clear tag buffer when compact mode inventory is aborted 	2017-12-08
2.6.08	<ul style="list-style-type: none"> Add compact mode inventory response packet 	2017-11-15
2.6.07	<ul style="list-style-type: none"> Support up to 31 retries for tag access operation 	2017-08-21
2.6.06	<ul style="list-style-type: none"> Reduce EAS alarm rate Change inventory default continuous mode 	2017-06-28
2.6.05	<ul style="list-style-type: none"> Add reduce tag rate parameter Add Authenticate, ReadBuffer, Untraceable commands 	2017-02-16
2.6.04	<ul style="list-style-type: none"> Fix profile initial bug 	2017-01-17
2.6.03	<ul style="list-style-type: none"> Add SJC test code 	2017-01-06
2.6.02	<ul style="list-style-type: none"> Change external PA control pin to PA31 	2016-11-09
2.6.01	<ul style="list-style-type: none"> Fix profile bug 	2016-11-02
2.6.00	<ul style="list-style-type: none"> Initial version 	2016-11-02

RFID Bootloader: R1000 Bootloader Release Notes

Release version	Changes	Date
1.1.00	<ul style="list-style-type: none"> Initial version 	2016-11-02

GitHub Site for CSL Demo Apps

Please go to the following GitHub site for demo app release notes and their corresponding source codes download:

[Convergence Systems Limited · GitHub](#)