

# **CS108 Firmware and Demo App Software Release Notes**

**2021 September 17** 

#### **Firmware Release Notes:**

- 1. Silicon Lab IC Firmware
- 2. Bluetooth IC Firmware
- 3. Atmel IC Firmware (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
1.0.16	Add auto report of trigger state command.	2021-08-11
1.0.15	<ul><li>For main board version 2.7 or after</li><li>Cancel battery fault detection</li></ul>	2020-05-29
1.0.14	• For main board version 2.7 or after	2020-04-09
	• Add I2C command for STUSB.	
	Add offset to battery voltage value.	
1.0.13	<ul> <li>Remove interrupt save/restore in USB send packet</li> </ul>	2019-08-30
1.0.12	• Fix a possible memory overflow	2019-08-26
1.0.11	Add Siliconlab force reset command	2019-08-22
1.0.10	Improve USB disconnection detection	2019-08-16
1.0.9	Fix USB hang during barcode scanning	2017-11-21
1.0.8	Add sequence number for RFID packet	2017-11-20
1.0.7	Add system reset if USB is disconnected	2017-08-28
1.0.6	Add trigger button to turn on BT	2017-08-18
	Add P3.0 VBUS control	
1.0.5	Fix CRC error of long packet	2017-06-28
1.0.4	Add EEPROM read/write serial no., model and	2017-05-19
	keys	
1.0.3	Fix trigger button current leakage	2017-05-17
1.0.2	Add auto battery reporting function	2017-04-26
1.0.1	Power off RFID when BT disconnected	2017-03-17
1.0.0	Initial version	2017-03-06

SiliconLab Bootloader Release Notes		
Release version	Changes	Date
0.0.0	Initial version	2017-03-06

### **Bluetooth IC Firmware:**

BT CC2541 Bluetooth IC Image App Release Notes		
Release version	Changes	Date
1.0.17	• Fix incomplete packet sending in some rare cases.	2021-08-24
1.0.16	Add hopping test API.	2020-10-22
1.0.15	Update to BLE library version 1.5.0 with Bluetooth 5.0 protocol but only LE 1M PHY	2019-09-20
1.0.14	Fix barcode trigger mode	2018-08-24
1.0.13	Fix barcode vibration mode	2018-08-17
1.0.12	<ul><li>Modify vibrator tag inventory mode</li><li>Add trigger release mode</li></ul>	2018-08-16
1.0.11	Modify vibrator on command	2018-05-28
1.0.10	Enable overlapped processing	2018-04-23
1.0.9	• Change connection interval 15-15	2018-04-19
1.0.8	Change connection interval 15-30	2018-04-18
1.0.7	Fix BT packet length bug	2018-04-17
1.0.6	Add BT disconnection command	2018-04-10
1.0.5	Add vibrator on/off commands	2018-04-06
	Add second send of trigger released packet.	
1.0.4	Change BT discoverable power on default to on	2017-11-09
1.0.3	Add trigger button to turn on BT	2017-08-11
1.0.2	Add raw barcode command support	2017-04-25
1.0.1	Power off RFID when BT disconnected	2017-03-17
1.0.0	Initial version	2017-03-06

BT CC2541 Bootloader Release Notes		
Release version	Changes	Date
0.0.0	Initial version	2017-03-06

## **Atmel IC Firmware (RFID Firmware)**

RFID Application:	R2000 MAC Firmware on Atmel IC Release Notes	
Release version	Changes	Date
2.6.42	• Add EM4325 <b>GetSensorData</b> command.	2021-09-09
2.6.41	Add FM13DT160 tag IC commands	2020-11-30
2.6.38	• Fix channel 4 power for -8 country	2020-09-18
2.6.37	Fix test antenna index	2020-08-03
2.6.36	• Add TXON = 0 for continuous TX	2020-07-30
2.6.35	• Fix target power upper limit setting	2020-07-07
2.6.34	• Fix USB hang	2020-01-13
2.6.33	• Fix GET_SERIAL command no response	2020-01-10
2.6.32	Add special power limit for -8 reader	2019-12-19
2.6.31	Add special checking for Brand ID support	2019-12-04
2.6.30	Add Ucode8 Brand ID support	2019-12-02
2.6.29	Add TAM2 ProtMode 2 or 3 support	2019-09-30
2.6.28	Add CS203I support	2019-09-05
2.6.27	Add port index in compact mode packet	2019-09-04
2.6.26	Add CS206 & CS468J support	2019-08-14
2.6.25	• Add 0x336 mac error report in	2019-07-02
	inventory_cycle_begin packet.	
	Add CW hold time delay in	
	TAGMSK_DESC_CFG register	
2.6.24	• Add 0.5ms delay for RFMicro model 402h read	
	RSSI command	
2.6.23	Return all EPCs for multi-bank inventory	2019-04-02
2.6.22	• Add 0.5ms delay for RFMicro model 403h read	2019-03-06
	RSSI command	
2.6.21	Add handling of RF Micron Temperature Tag	2019-02-20
2.6.20	• Cancel power up packet for CS108	2018-09-20
2.6.18	• Change default maximum allowed target power to	2018-08-27
	330	
2.6.17	Fix custom maximum allowed target power	2018-08-23
2.6.16	• Change register 0x0900 default value to 0x0000	2018-07-23

2.6.15	• Add power up packet type 0xF000 for CS108	2018-07-09
2.6.14	• Fix read/write problem	2018-04-30
2.6.13	• Fix multi-bank inventory problem when tag delay	2018-04-27
	> 0	
2.6.12	• Fix tag delay problem	2018-04-18
2.6.11	Add inventory cycle delay setting	2018-04-16
2.6.10	Fix compact mode inventory bug	2018-04-12
2.6.09	• Clear tag buffer when compact mode inventory is	2017-12-08
	aborted	
2.6.08	Add compact mode inventory response packet	2017-11-15
2.6.07	• Support up to 31 retries for tag access operation	2017-08-21
2.6.06	Reduce EAS alarm rate	2017-06-28
	Change inventory default continuous mode	
2.6.05	Add reduce tag rate parameter	2017-02-16
	Add Authenticate, ReadBuffer, Untraceable	
	commands	
2.6.04	• Fix profile initial bug	2017-01-17
2.6.03	Add SJC test code	2017-01-06
2.6.02	• Change external PA control pin to PA31	2016-11-09
2.6.01	Fix profile bug	2016-11-02
2.6.00	Initial version	2016-11-02

RFID Bootloader:	D Bootloader: R1000 Bootloader Release Notes	
Release version	Changes	Date
1.1.00	Initial version	2016-11-02

#### **Github Sites for Demo Apps**

Please go to the following respective Github sites for demo app release notes and their corresponding source codes download:

1) Objective C Demo App Github Site:

https://github.com/cslrfid/CS108-iOS-ObjC-App/releases

2) Swift Demo App Github Site:

https://github.com/cslrfid/CS108-iOS-Swift-App/releases

3) C# Demo App Github Site:

https://github.com/cslrfid/CS108-Mobile-CSharp-DotNetStd-App/releases

4) Android Java Demo App Github Site:

https://github.com/cslrfid/CS108-Android-Java-App/releases