

# Software Release Notes

[Playback / Playback\_393]



# 1. TABLE OF CONTENTS

1.	TABLE OF CONTENTS	2
2.	HISTORY	3
3.	SOFTWARE IDENTIFICATION	4
A.	VERSION CONTROL	4
В.	DEVELOPMENT ENVIRONNEMENT	4
4.	RELEASE FEATURES	5
5.	ENHANCEMENTS	6
6.	FIXES	7
<b>7</b> .	KNOWN ISSUES AND PROBLEMS	8



# 2. HISTORY

Full Name	Date	Describe	Version
Joel DEROCHE	01/12/2023	Creation	V01.01
Joel DEROCHE	12/12/2023	Update	V01.02
Peter Wrigley	19/12/2023	Update	V01.03



#### 3. SOFTWARE IDENTIFICATION

This software identified as PlayBack\_393 written for the project [PR0089 / Playback\_393]. This software was developed for the PlayBack\_393

This software was developed for the following hardware:

1. PCB Identification: nRF5340 DK

2. CPU Name: NRF5340

3. CPU Reference: NRF5340\_xxAA\_APP

#### A. VERSION CONTROL

This software version [V01.03] was identified by the TAG: [PLAYBACK\_393\_V01.03].

#### Location:

https://github.com/BermondseyElectronics/Playback\_393/tree/V01.03

#### Release:

https://github.com/BermondseyElectronics/Playback 393/releases/tag/Playback 393 V01.03

- 1. Git Commit HASH: [59ab3e28fc3d47e51d570f7c3066de031a2586f3]
- 2. Git TAG: PLAYBACK\_393\_V01.03

#### B. DEVELOPMENT ENVIRONNEMENT

For Microchip Product the configuration bits must contains:

This software was developed with the followings tools:

- 1. IDE Information:
  - a. Name: Visual Studio Code
  - b. Version: 1.85.1
  - c. Compiler Version: ncs v2.4.2
  - d. Assembler Version: -
  - e. Linker Version: -
- 2. Operating System Information:
  - a. Edition: Window 11
  - b. System type: 64 Bit operating system, x64-based processor



# 4. RELEASE FEATURES

Feature ID	Description	SOFTWARE VERSION
1	PLAYBACK Firmware Deliverable 1	V01.02
12	Battery readout manager not implemented	V01.02
8	Power Management not implemented	V01.02
7	LEDs control not implemented	V01.02



# 5. ENHANCEMENTS

Enhancements ID	Description	SOFTWARE VERSION



# 6. FIXES

Fix #ID	Description	SOFTWARE VERSION
15	JScope & RTT RTT communication blocking software when JTAG not plugged	V01.00
16	IMU Thread Blocking - Infinite polling on Data Ready Line	V01.02
18	Boken hex file for clean program	V01.03



### 7. KNOWN ISSUES AND PROBLEMS

Issue #ID	Description	SOFTWARE VERSION
14	Code protection not implemented	V01.00
13	Feedback manager not implemented	V01.00
17	<ul> <li>Fault Indication</li> <li>What specific faults need to be monitored by the LED indicator?</li> <li>How should the LED behave in different scenarios, such as during a low battery?</li> <li>Can the fault be self-recovered, or is it a permanent malfunction?</li> <li>What are the criteria to validate or invalidate a fault</li> </ul>	V01.02

### 1. NOTES

### BATTERY CHARGER AND MEASUREMENT

The Battery Charger pin has been selected to be P1.10 on the board, Active HIGH

The current setting let us measure a voltage from 0v to 3.6V pin P0.07 with a 100% towards 3.6v

- Low battery Trigger < 15%
- Low batter Off Trigger >30%

### **Interpolation Curve**

{ Millivolts, Level },		
{ 2100,	0 },	
{ 2600,	5 },	
{ 3020,	15 },	
{ 3150,	80 },	
{ 3360,	95 },	
{ 3600,	100 }	



### LED

• LED 1 : RED

• LED 2 : BLUE

LED 3 : AMBER

• LED 4 : GREEN