Errata sheet

Software limitations related to STEVAL-BCNKT01V1 lot 1720

Board identification

This errata sheet applies to the STEVAL-BCNKT01V1 lot 1720 when using FP-AUD-SMARTMIC1 (v1.2.0 or above). See the information below for details.

Table 1. Board summary

Order code	Device info
STEVAL-BCNKT01V1	1720 (on the STEVAL-BCNCS01V1 evaluation board)



Figure 1. Board identification (1720)



1 Limitation

1.1 Description

FP-AUD-SMARTMIC1 v1.2.0 has been updated to fully work with the latest generation of the BlueCoin evaluation kit (STEVAL-BCNKT01V1).

The STEVAL-BCNKT01V1 (BlueCoin) production lot "1720" mounts MP34DT04-C1 MEMS microphone instead of MP34DT06.I.

In this case, the parameters passed to the AcousticBF and AcousticSL libraries used in FP-AUD-SMARTMIC1 need to be optimized to reach the best audio performance.

1.2 Workaround

To get the best audio performance, when using a "1720" BlueCoin, you have to:

• uncomment #define BLUECOIN_1720 in audio_application.h

Figure 2. STEVAL-BCNCS01V1: custom code for the 1720 lot

```
75 //#define BLUECOIN_1720
                              /*Uncomment to configure mic distance for '1720' signed BlueCoin*/
77 # #if defined (STM32 BLUECOIN)
78 #define TOP RIGHT MIC 2
   #define TOP_LEFT_MIC 3
79
80
   #define BOTTOM_RIGHT_MIC 0
81
   #define BOTTOM_LEFT_MIC 1
82
83 ##ifdef BLUECOIN 1720
   #define SIDE_X 40
#define SIDE_Y 40
84
85
    #define DIAGONAL 57
86
87
    #else
88
   #define SIDE X 40
   #define SIDE Y 34
   #define DIAGONAL 53
91 | #endif
```

· rebuild all files and load the binary on the BlueCoin

The BLUECOIN 1720 define overwrites the microphone configuration distance, making the example fully working.

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Revision history

Table 2. Document revision history

Date	Revision	Changes
12-Oct-2018	1	Initial release.

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