

## Migration to New Versions of BM23 Modules

The BM23 modules are being updated with a new Bluetooth SoC. Customers are encouraged to migrate to the newer versions, as older versions will become End of Life (EOL) in November, 2017 and no longer available for purchase. This change is expected to be transparent to end applications. There is no difference in functionality, form factor, pinout, or cost. A new set of software tools used to set Bluetooth and DSP parameters is required to generate the files that are programmed in the device.

The following table is provided to match the BM23 version with its respective tools package.

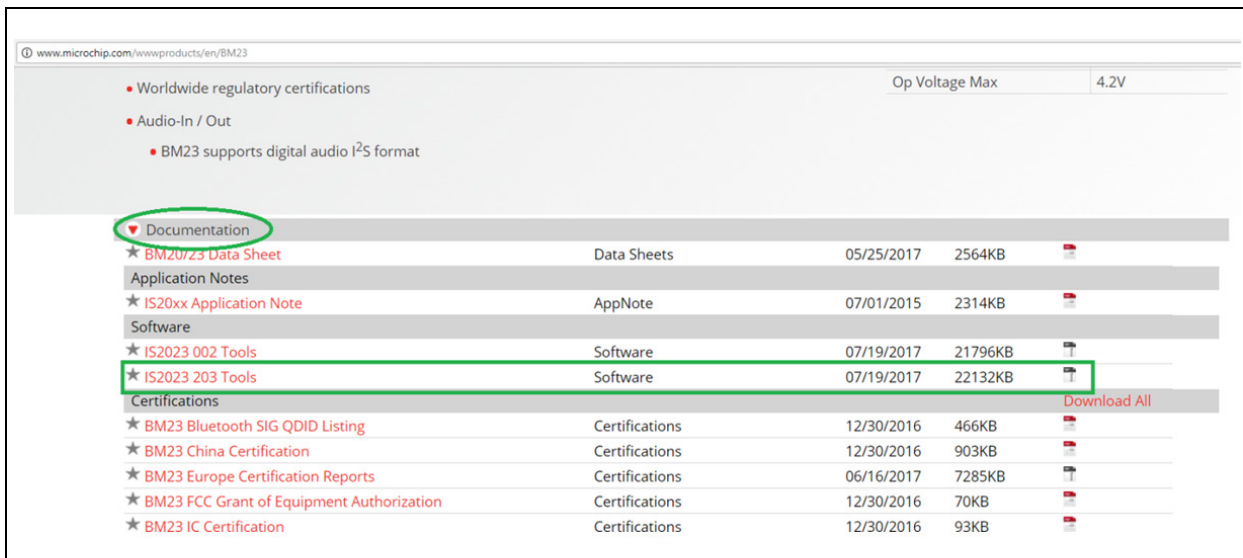
**TABLE 1: BM23 VERSION WITH RESPECTIVE TOOLS PACKAGE**

CPN	Description	Software Tools Package
BM23SPKA1NB9-0001AA	Old BM23 module; without shield	IS2023 002 Tools
BM23SPKS1NB9-0001AA	Old BM23 module; with shield	IS2023 002 Tools
BM23SPKA1NB9-0B02AA	New BM23 module; without shield	IS2023 203 Tools
BM23SPKS1NB9-0B02AA	New BM23 module; with shield	IS2023 203 Tools

Perform the following steps to use the new module:

1. Replace the BM23 module with the newer variant. No other changes in hardware is required.
2. Download the “IS2023 203 Tool” software package from [www.microchip.com/bm23](http://www.microchip.com/bm23) as shown in Figure 1.

**FIGURE 1: DOWNLOADING SOFTWARE PACKAGE**



3. Reconfigure UI setting using `IS20XXS_203UI v1.03.4.exe`.
4. Reconfigure DSP setting using `DSPTool_IS20XX_203_1.06.exe`.
5. Follow `IS2023_203_Apps_Notes.pdf` to create \*.ipf. `IS2023_203_Apps_Notes.pdf` is part of IS2023 203 Tool folder.
  - a) Choose `IS2023_203_Merge_0F10.bin` in MPET tool. This file has necessary patch code for `BM23_203/IS2023_203`.
  - b) `IS2023_203_Merge_0F10.bin` is part of IS2023 203 Tool folder.

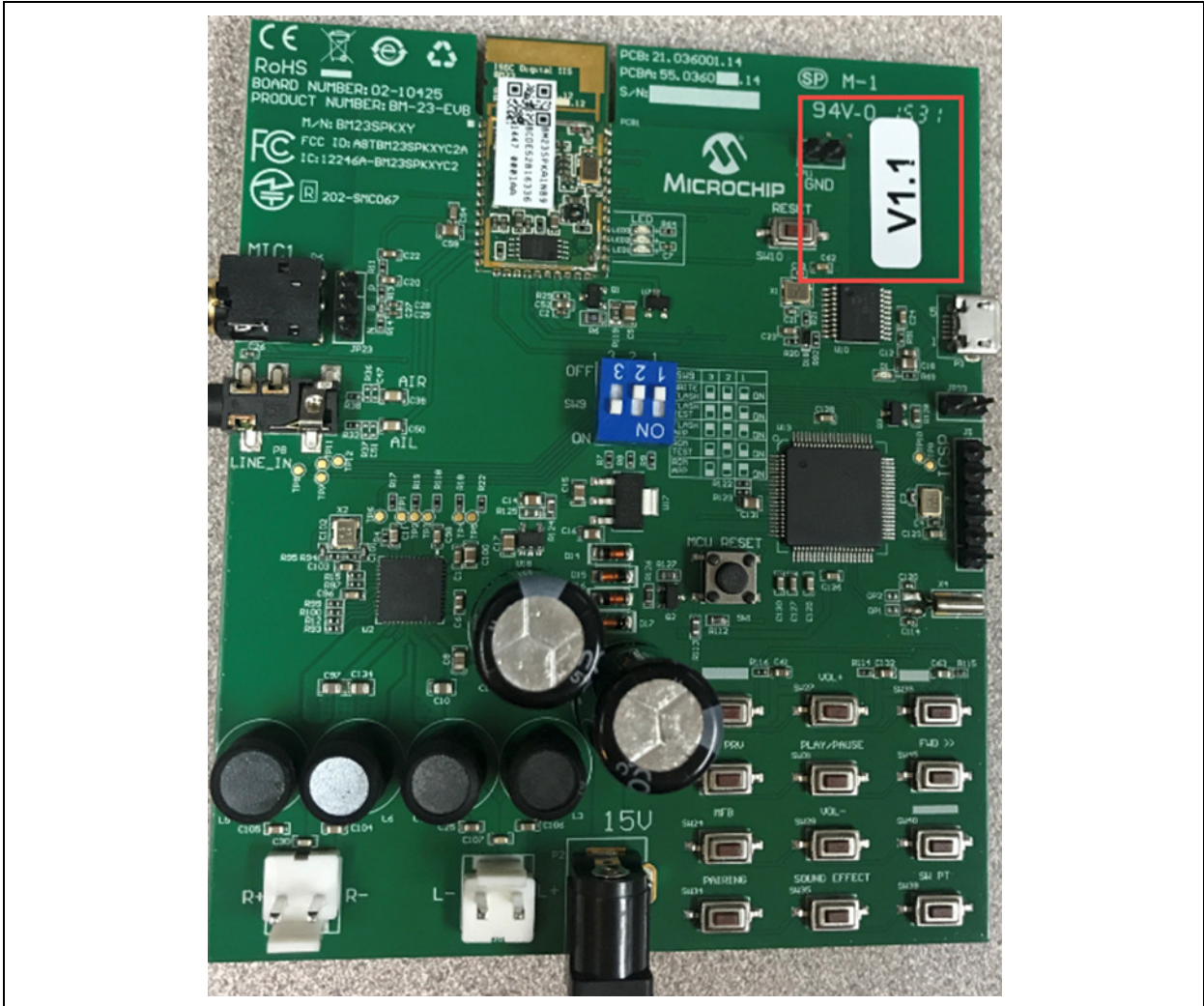
# BM23

6. Program the created \*.ipf (in step 4) into the module.
7. Power cycle the new BM23 module. Pair it with a mobile phone or any other Bluetooth-enabled device.
8. Test the module by playing music and receiving phone calls.

**Note:** The UI and DSP settings generated from the “IS2023 002 Tools” are not portable to the “IS2023 203 Tools”. Follow the previous steps to generate a new \*.ipf file to reprogram the device.

All BM-23-EVB boards with the new version of the module will be marked with a “V1.1” label on the upper right hand corner of the board, as shown in [Figure 2](#).

**FIGURE 2: BM23 EVB**



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