2304261442 EFM8BB52 UART Bootloader Update and Errata v0.3 Release

PCN Issue Date: Apr 26, 2023   **Effective Date:** Aug 01, 2023

PCN Type: Errata

Description of Change

Silicon Labs announces the release of errata version 0.3 for EFM8BB52 devices.

Revision 0.3
• Added BL_E201 – UART Bootloader Bootload Mode Entry Pin Not Available

The pre-programmed factory bootloader for QFN20 and TSSOP20 packaged EFM8BB52 devices use an unavailable pin for bootload mode entry.

A bootloader is not required for normal operation. If a bootloader is required by the application, a custom-written bootloader can be downloaded to the device, replacing the pre-programmed factory bootloader image. A bootloader binary is also provided in AN945: "EFM8 Factory Bootloader User Guide" which utilizes the bootload entry pin specified in the device data sheet, and can be used to replace the factory bootloader.

As of the Effective Date of this PCN, Silicon Labs will update the pre-programmed factory bootloader to fix this issue. This issue is resolved in revision C devices with date code 2330 and later.

Links to errata and application note:
• Errata: https://www.silabs.com/documents/public/errata/efm8bb52-errata.pdf
• Application Note: https://www.silabs.com/documents/public/application-notes/an945-efm8-factory-bootloader-user-guide.pdf

Reason for Change

The factory bootloader does not work as intended on QFN20 or TSSOP20 packaged EFM8BB52 devices.

Impact on Form, Fit, Function, Quality, Reliability

No impact on Form, Fit, Quality or Reliability. Function is impacted as described in above.

Product Identification

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Existing Part #
EFM8BB52F16G-C-QFN20
EFM8BB52F16G-C-QFN20R
EFM8BB52F16G-C-TSSOP20
EFM8BB52F16G-C-TSSOP20R
EFM8BB52F16I-C-QFN20
EFM8BB52F16I-C-QFN20R
EFM8BB52F16I-C-TSSOP20
EFM8BB52F16I-C-TSSOP20R
EFM8BB52F32G-C-QFN20
EFM8BB52F32G-C-QFN20R
EFM8BB52F32G-C-TSSOP20
EFM8BB52F32G-C-TSSOP20R
EFM8BB52F32I-C-QFN20
EFM8BB52F32I-C-QFN20R
EFM8BB52F32I-C-TSSOP20
EFM8BB52F32I-C-TSSOP20R
```

Last Date of Unchanged Product: Aug 01, 2023

Qualification Samples

N/A

Customer Response

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

To request further data or inquire about this notification, please contact your Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at http://www.silabs.com.
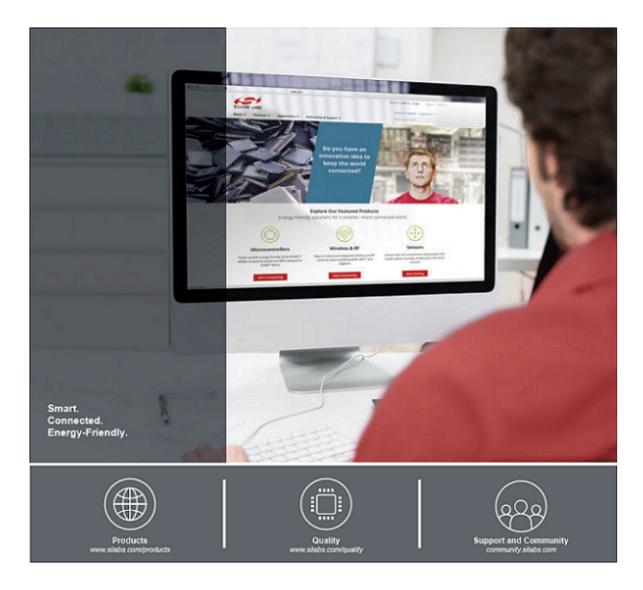
Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCNEarlyAcceptance@silabs.com

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