180110228 EFR32MG13, EFR32BG13 & EFR32FG13 Data Sheet Revision 1.1 and Errata Update

PCN Issue Date: 1/10/2018   **Effective Date:** 4/13/2018

PCN Type: Datasheet; Test

Description of Change

Silicon Labs is pleased to announce Data Sheet Revision 1.1 for EFR32MG13 Mighty Gecko Multi-Protocol, EFR32BG13 Blue Gecko Bluetooth® Low Energy and EFR32FG13 Flex Gecko Proprietary Wireless SoC families.

Notable changes from Revision 1.0 are:
• Removed PLFRCO block and associated specification
• Widened VGAIN error limits for Digital to Analog Converter (VDAC)
• Footnotes added to RF Transmitter Characteristics for Bluetooth Low energy (500 Kbps and 125 Kbps) to indicate the TX Output power needs to be limited to +14 dBm to comply with FCC Power Spectral Density limit
• Various other footnotes added to electrical specifications as detailed in the Revision history of the data sheet.

The Errata is updated to Revision 0.4. The following Errata is no longer applicable due to above-mentioned changes, and is being removed:
PLFRCO_E201: Output Frequency Error Below 0 °C Causing Bluetooth Communication Issues

After the effective date of this PCN, Silicon Labs reserves the right to deliver product with the above-mentioned changes.

Reason for Change

Due to a silicon process-related noise mechanism, the PLFRCO block does not meet the Max/Min +/- 500 PPM sleep clock accuracy specified in Revision 1.0 Datasheet and is, therefore, being removed from the product.

Impact on Form, Fit, Function, Quality, Reliability

Removed PLFRCO block. No change to form, fit, quality and reliability.

Product Identification

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EFR32BG13P532F512GM48-C
EFR32BG13P532F512GM48-CR
EFR32BG13P632F512GM48-C
EFR32BG13P632F512GM48-CR
EFR32BG13P733F512GM48-C
EFR32BG13P733F512GM48-CR
EFR32BG13P732F512GM48-C
EFR32BG13P732F512GM48-CR
EFR32BG13P632F512IM48-C
EFR32BG13P632F512IM48-CR
EFR32FG13P233F512GM48-C
EFR32FG13P233F512GM48-CR
EFR32FG13P232F512GM48-C
EFR32FG13P232F512GM48-CR
EFR32FG13P231F512GM48-C
EFR32FG13P231F512GM48-CR
EFR32FG13P231F512IM48-C
EFR32FG13P231F512IM48-CR
EFR32MG13P632F512GM48-C
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EFR32MG13P632F512GM48-CR
EFR32MG13P733F512GM48-C
EFR32MG13P733F512GM48-CR
EFR32MG13P732F512GM48-C
EFR32MG13P732F512GM48-CR
EFR32MG13P733F512IM48-C
EFR32MG13P733F512IM48-CR
EFR32MG13P732F512IM48-C
EFR32MG13P732F512IM48-CR
```

Last Date of Unchanged Product: 4/13/2018

Qualification Samples

Samples available upon request.

Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at http://www.silabs.com.

In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.

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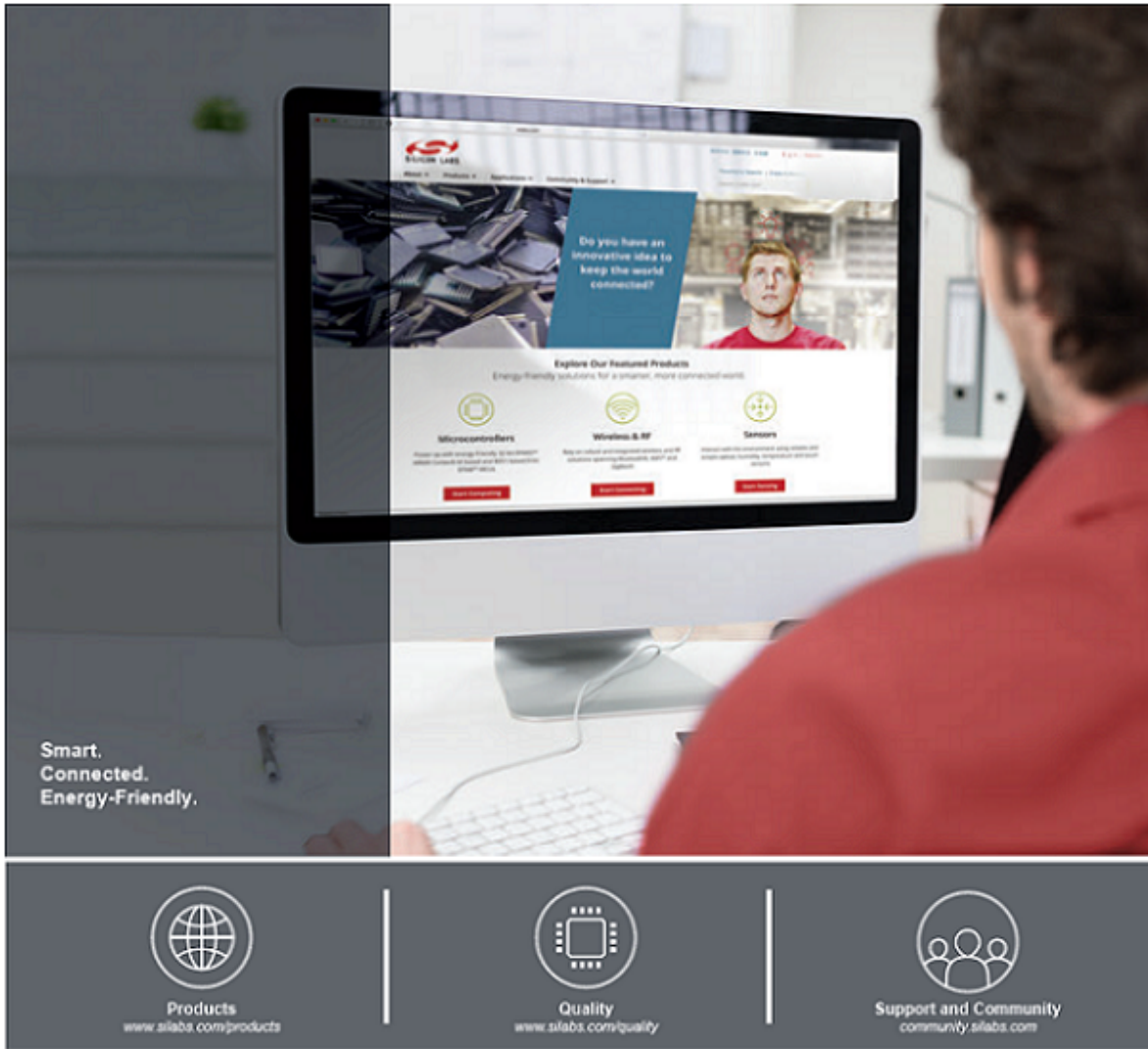
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