200505777 Errata Update BGM13S, MGM13S, MGM12P

Bulletin Issue Date: 5/5/2020 **Effective Date:** 5/5/2020

Description of Change

Silicon Labs is pleased to announce the release of the following errata versions for BGM13S, MGM13S and MGM12P devices. These updated errata add errata item EMU_E220 whose details can be found in the change reason and impact sections.
Release of Version 0.2 of the BGM13S Errata
Release of Version 0.2 of the MGM13S Errata
Release of Version 0.3 of the MGM12P Errata

There is no change to form, fit, quality or reliability. Function is impacted as described below:

When exiting energy mode 2 (EM2) or energy mode 3 (EM3) there will now be a 2.7us increase in the wake up time. This will be implemented in GSDK Version 2.7.4.0 and beyond by updating EMLIB. The impacted functions are EMU_EnterEM2() and EMU_EnterEM3() in em_emu.c as well as CHIP_Init() in em_chip.h.

This workaround is included in em_emu.c in the v2.7.4.0 or later of the Gecko SDK. It is recommended to workaround this issue by using the latest Gecko SDK version.

Please contact your local Silicon Labs representative for further information.

Reason for Change

Errata item EMU_E220: Infrequently, when waking from energy mode 2 (EM2) or energy mode 3 (EM3), if using voltage scaling the device will experience a decouple voltage brownout (DECBOD) reset. To prevent this from happening, the wake up sequence when exiting EM2 and EM3 when using voltage scaling has been updated.

Product Identification

```
Existing Part #
BGM13S22F512GA-V3
BGM13S22F512GA-V3R
BGM13S22F512GN-V2
BGM13S22F512GN-V2R
BGM13S22F512GN-V3
BGM13S22F512GN-V3R
BGM13S32F512GA-V3
BGM13S32F512GA-V3R
BGM13S32F512GN-V2
BGM13S32F512GN-V2R
BGM13S32F512GN-V3
BGM13S32F512GN-V3R
MGM12P02F1024GA-V2
MGM12P02F1024GA-V2R
MGM12P02F1024GA-V4
MGM12P02F1024GA-V4R
MGM12P02F1024GE-V2
MGM12P02F1024GE-V2R
MGM12P02F1024GE-V4
MGM12P02F1024GE-V4R
MGM12P22F1024GA-V2
MGM12P22F1024GA-V2R
MGM12P22F1024GA-V4
MGM12P22F1024GA-V4R
MGM12P22F1024GE-V4
```

```
MGM12P22F1024GE-V4R
MGM12P22XXXXXGA-V4
MGM12P22XXXXXGA-V4R
MGM12P32F1024GA-V2
MGM12P32F1024GA-V2R
MGM12P32F1024GA-V4
MGM12P32F1024GA-V4R
MGM12P32F1024GE-V2
MGM12P32F1024GE-V2R
MGM12P32F1024GE-V4
MGM12P32F1024GE-V4R
MGM13S02F512GA-V2
MGM13S02F512GA-V2R
MGM13S02F512GA-V3
MGM13S02F512GA-V3R
MGM13S02F512GN-V2
MGM13S02F512GN-V2R
MGM13S02F512GN-V3
MGM13S02F512GN-V3R
MGM13S12F512GA-V2
MGM13S12F512GA-V2R
MGM13S12F512GA-V3
MGM13S12F512GA-V3R
MGM13S12F512GN-V2
MGM13S12F512GN-V2R
MGM13S12F512GN-V3
MGM13S12F512GN-V3R

Where 'X' denotes a custom part number.
```

This change is considered a minor change which does not affect form, fit, function, quality, or reliability. The information is being provided as a customer courtesy.

Please contact your local Silicon Labs sales representative with any questions about this notification. A list of Silicon Labs sales representatives may be found at **http://www.silabs.com.**

Customer Actions Needed:

None

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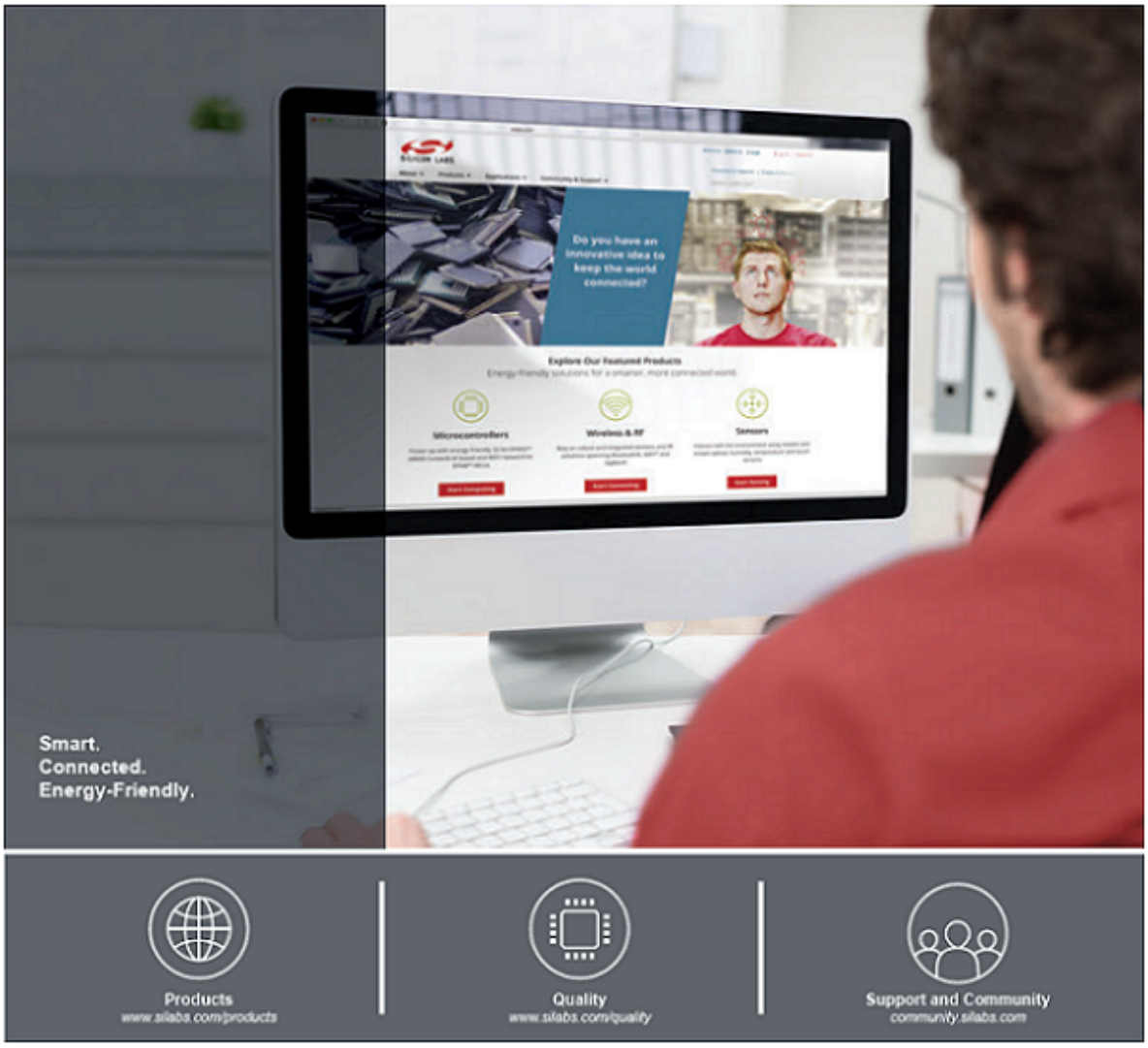

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