



# 190904611 EFM32ZG Revision B for PORBOD

**PRCN Issue Date:** 9/4/2019

**Effective Date:** 12/10/2019

**PCN Type:** Product Revision

## Description of Change

Silicon Labs is pleased to announce the release of revision B of the EFM32ZG devices. This release is accompanied by version 2.1 of the EFM32ZG datasheet

This revision solves 2 errata items, RMU\_E103 and RMU\_E102.

**RMU\_E102:**

Output of the on-chip regulator (DECOUPLE pin) may be approximately 0V, and the device will not respond to a pin reset.

**RMU\_E103:**

Reset may fail to trigger when the device supplies (AVDD\_0, AVDD\_2, VDD\_DREG) fall to a voltage in the 1.25V - 1.45V range.

EFM32HG Datasheet changes are as follows:

Updated Table 2.1. "Ordering Information" to replace all OPNs with revision B indicated by a "-B"

Added SysTick on frontpage feature set

Corrected bootloader type on frontpage features set

Corrected pin number for symbol P9 in section 6.2 QFN24 PCB Layout

Corrected pin number for symbol P9 in section 7.2 QFN32 PCB Layout

Removed reference to simulation in section 4.1.1 Typical Values

Removed reference to simulation in section 4.1.2 Minimum and Maximum Values

Removed footnote about storage temperature and added max sink/source current per I/O pin in Table 4.2 Absolute Maximum Ratings

Changed the minimum input on resistance of the ADC from 1M $\Omega$  to 300 $\Omega$

Added maximum input on resistance of the ADC of 800 $\Omega$

After the effective date Silicon Labs reserves the right to begin shipping revision B devices in place of revision A devices.

## Reason for Change

Addressing errata items

## Impact on Form, Fit, Function, Quality, Reliability

The ADC on resistance specification was incorrect in the datasheet. It is now listed correctly and therefore there is no impact to Form, Fit, Function, Quality, or Reliability

## Product Identification

Existing Part #	Replacement Part #	DropInCompInd.
EFM32ZG108F16-QFN24T	EFM32ZG108F16-B-QFN24	Yes
EFM32ZG108F16-QFN24	EFM32ZG108F16-B-QFN24	Yes
EFM32ZG108F32-QFN24T	EFM32ZG108F32-B-QFN24	Yes
EFM32ZG108F32-QFN24	EFM32ZG108F32-B-QFN24	Yes
EFM32ZG108F4-QFN24T	EFM32ZG108F4-B-QFN24	Yes
EFM32ZG108F4-QFN24	EFM32ZG108F4-B-QFN24	Yes
EFM32ZG108F8-QFN24T	EFM32ZG108F8-B-QFN24	Yes
EFM32ZG108F8-QFN24	EFM32ZG108F8-B-QFN24	Yes
EFM32ZG110F16-QFN24T	EFM32ZG110F16-B-QFN24	Yes
EFM32ZG110F16-QFN24	EFM32ZG110F16-B-QFN24	Yes

EFM32ZG110F32-QFN24T	EFM32ZG110F32-B-QFN24	Yes
EFM32ZG110F32-QFN24	EFM32ZG110F32-B-QFN24	Yes
EFM32ZG110F4-QFN24T	EFM32ZG110F4-B-QFN24	Yes
EFM32ZG110F4-QFN24	EFM32ZG110F4-B-QFN24	Yes
EFM32ZG110F8-QFN24T	EFM32ZG110F8-B-QFN24	Yes
EFM32ZG110F8-QFN24	EFM32ZG110F8-B-QFN24	Yes
EFM32ZG20F32-QFN32T	EFM32ZG20F32-B-QFN32	Yes
EFM32ZG20F32-QFN32	EFM32ZG20F32-B-QFN32	Yes
EFM32ZG210F16-QFN32T	EFM32ZG210F16-B-QFN32	Yes
EFM32ZG210F16-QFN32	EFM32ZG210F16-B-QFN32	Yes
EFM32ZG210F32-QFN32T	EFM32ZG210F32-B-QFN32	Yes
EFM32ZG210F32-QFN32	EFM32ZG210F32-B-QFN32	Yes
EFM32ZG210F4-QFN32T	EFM32ZG210F4-B-QFN32	Yes
EFM32ZG210F4-QFN32	EFM32ZG210F4-B-QFN32	Yes
EFM32ZG210F8-QFN32T	EFM32ZG210F8-B-QFN32	Yes
EFM32ZG210F8-QFN32	EFM32ZG210F8-B-QFN32	Yes
EFM32ZG222F16-QFP48T	EFM32ZG222F16-B-QFP48	Yes
EFM32ZG222F16-QFP48	EFM32ZG222F16-B-QFP48	Yes
EFM32ZG222F32-QFP48T	EFM32ZG222F32-B-QFP48	Yes
EFM32ZG222F32-QFP48	EFM32ZG222F32-B-QFP48	Yes
EFM32ZG222F4-QFP48T	EFM32ZG222F4-B-QFP48	Yes
EFM32ZG222F4-QFP48	EFM32ZG222F4-B-QFP48	Yes
EFM32ZG222F8-QFP48T	EFM32ZG222F8-B-QFP48	Yes
EFM32ZG222F8-QFP48	EFM32ZG222F8-B-QFP48	Yes

**Last Date of Unchanged Product:** 12/10/2019

### Qualification Samples

Available upon request.

### 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](mailto:PCNEarlyAcceptance@silabs.com)

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### Qualification Data

Available upon request.



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**Silicon Laboratories Inc.**  
 400 West Cesar Chavez  
 Austin, TX 78701

<http://www.silabs.com>