



190807579 EFM32HG and EZR32HG

Revision C PRCN

PRCN Issue Date: 8/7/2019

Effective Date: 11/13/2019

PCN Type: Product Revision

Description of Change

Silicon Labs is pleased to announce the release of revision C of the EFM32HG and EZR32HG devices. This release is accompanied by version 2.2 of the EFM32HG datasheet and version 1.1 of the EZR32HG datasheets.

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 from revision B to revision C

Added word write cycles between erase to Table 4.8 "Flash"

Updated wording for concurrent use of USART1 as an internal radio interface and an external interface

EZR32HZ Datasheet changes are as follow:

Updated Table 2.1 "Ordering Guide" to replace all OPNs from revision B to revision C

Updated PCB Land Pattern Dimensions table to fix typographical error

Updated wording for concurrent use of USART1 as an internal radio interface and an external interface

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

Reason for Change

This revision change is needed to address active errata items impacting reset and supply regulators.

Impact on Form, Fit, Function, Quality, Reliability

Devices will now correctly respond to resets and will not lock up if the supply range drops in the 1.25-1.45 V range.

Product Identification

Existing Part #	Replacement Part #	DropInCompInd.
EFM32HG108F32G-B-QFN24	EFM32HG108F32G-C-QFN24	Yes
EFM32HG108F32G-B-QFN24R	EFM32HG108F32G-C-QFN24R	Yes
EFM32HG108F32N-B-QFN24	EFM32HG108F32N-C-QFN24	Yes
EFM32HG108F32N-B-QFN24R	EFM32HG108F32N-C-QFN24R	Yes
EFM32HG108F64G-B-QFN24	EFM32HG108F64G-C-QFN24	Yes
EFM32HG108F64G-B-QFN24R	EFM32HG108F64G-C-QFN24R	Yes
EFM32HG108F64N-B-QFN24	EFM32HG108F64N-C-QFN24	Yes
EFM32HG108F64N-B-QFN24R	EFM32HG108F64N-C-QFN24R	Yes
EFM32HG110F32G-B-QFN24	EFM32HG110F32G-C-QFN24	Yes
EFM32HG110F32G-B-QFN24R	EFM32HG110F32G-C-QFN24R	Yes
EFM32HG110F32N-B-QFN24	EFM32HG110F32N-C-QFN24	Yes
EFM32HG110F32N-B-QFN24R	EFM32HG110F32N-C-QFN24R	Yes
EFM32HG110F64G-B-QFN24	EFM32HG110F64G-C-QFN24	Yes
EFM32HG110F64G-B-QFN24R	EFM32HG110F64G-C-QFN24R	Yes

EFM32HG110F64N-B-QFN24	EFM32HG110F64N-C-QFN24	Yes
EFM32HG110F64N-B-QFN24R	EFM32HG110F64N-C-QFN24R	Yes
EFM32HG210F32G-B-QFN32	EFM32HG210F32G-C-QFN32	Yes
EFM32HG210F32G-B-QFN32R	EFM32HG210F32G-C-QFN32R	Yes
EFM32HG210F32N-B-QFN32	EFM32HG210F32N-C-QFN32	Yes
EFM32HG210F32N-B-QFN32R	EFM32HG210F32N-C-QFN32R	Yes
EFM32HG210F64G-B-QFN32	EFM32HG210F64G-C-QFN32	Yes
EFM32HG210F64G-B-QFN32R	EFM32HG210F64G-C-QFN32R	Yes
EFM32HG210F64N-B-QFN32	EFM32HG210F64N-C-QFN32	Yes
EFM32HG210F64N-B-QFN32R	EFM32HG210F64N-C-QFN32R	Yes
EFM32HG222F32G-B-QFP48	EFM32HG222F32G-C-QFP48	Yes
EFM32HG222F32G-B-QFP48R	EFM32HG222F32G-C-QFP48R	Yes
EFM32HG222F32N-B-QFP48	EFM32HG222F32N-C-QFP48	Yes
EFM32HG222F32N-B-QFP48R	EFM32HG222F32N-C-QFP48R	Yes
EFM32HG222F64G-B-QFP48	EFM32HG222F64G-C-QFP48	Yes
EFM32HG222F64G-B-QFP48R	EFM32HG222F64G-C-QFP48R	Yes
EFM32HG222F64N-B-QFP48	EFM32HG222F64N-C-QFP48	Yes
EFM32HG222F64N-B-QFP48R	EFM32HG222F64N-C-QFP48R	Yes
EFM32HG308F32G-B-QFN24	EFM32HG308F32G-C-QFN24	Yes
EFM32HG308F32G-B-QFN24R	EFM32HG308F32G-C-QFN24R	Yes
EFM32HG308F32N-B-QFN24	EFM32HG308F32N-C-QFN24	Yes
EFM32HG308F32N-B-QFN24R	EFM32HG308F32N-C-QFN24R	Yes
EFM32HG308F64G-B-QFN24	EFM32HG308F64G-C-QFN24	Yes
EFM32HG308F64G-B-QFN24R	EFM32HG308F64G-C-QFN24R	Yes
EFM32HG308F64N-B-QFN24	EFM32HG308F64N-C-QFN24	Yes
EFM32HG308F64N-B-QFN24R	EFM32HG308F64N-C-QFN24R	Yes
EFM32HG309F32G-B-QFN24	EFM32HG309F32G-C-QFN24	Yes
EFM32HG309F32G-B-QFN24R	EFM32HG309F32G-C-QFN24R	Yes
EFM32HG309F32N-B-QFN24	EFM32HG309F32N-C-QFN24	Yes
EFM32HG309F32N-B-QFN24R	EFM32HG309F32N-C-QFN24R	Yes
EFM32HG309F64G-B-QFN24	EFM32HG309F64G-C-QFN24	Yes
EFM32HG309F64G-B-QFN24R	EFM32HG309F64G-C-QFN24R	Yes
EFM32HG309F64N-B-QFN24	EFM32HG309F64N-C-QFN24	Yes
EFM32HG309F64N-B-QFN24R	EFM32HG309F64N-C-QFN24R	Yes
EFM32HG310F32G-B-QFN32	EFM32HG310F32G-C-QFN32	Yes
EFM32HG310F32G-B-QFN32R	EFM32HG310F32G-C-QFN32R	Yes
EFM32HG310F32N-B-QFN32	EFM32HG310F32N-C-QFN32	Yes
EFM32HG310F32N-B-QFN32R	EFM32HG310F32N-C-QFN32R	Yes
EFM32HG310F64G-B-QFN32	EFM32HG310F64G-C-QFN32	Yes
EFM32HG310F64G-B-QFN32R	EFM32HG310F64G-C-QFN32R	Yes
EFM32HG310F64N-B-QFN32	EFM32HG310F64N-C-QFN32	Yes
EFM32HG310F64N-B-QFN32R	EFM32HG310F64N-C-QFN32R	Yes
EFM32HG321F32G-B-QFP48	EFM32HG321F32G-C-QFP48	Yes
EFM32HG321F32G-B-QFP48R	EFM32HG321F32G-C-QFP48R	Yes
EFM32HG321F32N-B-QFP48	EFM32HG321F32N-C-QFP48	Yes
EFM32HG321F32N-B-QFP48R	EFM32HG321F32N-C-QFP48R	Yes
EFM32HG321F64G-B-QFP48	EFM32HG321F64G-C-QFP48	Yes
EFM32HG321F64G-B-QFP48R	EFM32HG321F64G-C-QFP48R	Yes
EFM32HG321F64N-B-QFP48	EFM32HG321F64N-C-QFP48	Yes
EFM32HG321F64N-B-QFP48R	EFM32HG321F64N-C-QFP48R	Yes
EFM32HG322F32G-B-QFP48	EFM32HG322F32G-C-QFP48	Yes
EFM32HG322F32G-B-QFP48R	EFM32HG322F32G-C-QFP48R	Yes
EFM32HG322F32N-B-QFP48	EFM32HG322F32N-C-QFP48	Yes
EFM32HG322F32N-B-QFP48R	EFM32HG322F32N-C-QFP48R	Yes
EFM32HG322F64G-B-QFP48	EFM32HG322F64G-C-QFP48	Yes
EFM32HG322F64G-B-QFP48R	EFM32HG322F64G-C-QFP48R	Yes
EFM32HG322F64N-B-QFP48	EFM32HG322F64N-C-QFP48	Yes
EFM32HG322F64N-B-QFP48R	EFM32HG322F64N-C-QFP48R	Yes
EFM32HG350F32G-B-CSP36	EFM32HG350F32G-C-CSP36	Yes
EFM32HG350F32G-B-CSP36R	EFM32HG350F32G-C-CSP36R	Yes
EFM32HG350F64G-B-CSP36	EFM32HG350F64G-C-CSP36	Yes
EFM32HG350F64G-B-CSP36R	EFM32HG350F64G-C-CSP36R	Yes
EZR32HG220F32R55G-B0	EZR32HG220F32R55G-C0	Yes
EZR32HG220F32R55G-B0R	EZR32HG220F32R55G-C0R	Yes
EZR32HG220F32R60G-B0	EZR32HG220F32R60G-C0	Yes
EZR32HG220F32R60G-B0R	EZR32HG220F32R60G-C0R	Yes
EZR32HG220F32R61G-B0	EZR32HG220F32R61G-C0	Yes

EZR32HG220F32R61G-B0R	EZR32HG220F32R61G-C0R	Yes
EZR32HG220F32R63G-B0	EZR32HG220F32R63G-C0	Yes
EZR32HG220F32R63G-B0R	EZR32HG220F32R63G-C0R	Yes
EZR32HG220F32R67G-B0	EZR32HG220F32R67G-C0	Yes
EZR32HG220F32R67G-B0R	EZR32HG220F32R67G-C0R	Yes
EZR32HG220F32R68G-B0	EZR32HG220F32R68G-C0	Yes
EZR32HG220F32R68G-B0R	EZR32HG220F32R68G-C0R	Yes
EZR32HG220F32R69G-B0	EZR32HG220F32R69G-C0	Yes
EZR32HG220F32R69G-B0R	EZR32HG220F32R69G-C0R	Yes
EZR32HG220F64R55G-B0	EZR32HG220F64R55G-C0	Yes
EZR32HG220F64R55G-B0R	EZR32HG220F64R55G-C0R	Yes
EZR32HG220F64R60G-B0	EZR32HG220F64R60G-C0	Yes
EZR32HG220F64R60G-B0R	EZR32HG220F64R60G-C0R	Yes
EZR32HG220F64R61G-B0	EZR32HG220F64R61G-C0	Yes
EZR32HG220F64R61G-B0R	EZR32HG220F64R61G-C0R	Yes
EZR32HG220F64R63G-B0	EZR32HG220F64R63G-C0	Yes
EZR32HG220F64R63G-B0R	EZR32HG220F64R63G-C0R	Yes
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EZR32HG220F64R67G-B0R	EZR32HG220F64R67G-C0R	Yes
EZR32HG220F64R68G-B0	EZR32HG220F64R68G-C0	Yes
EZR32HG220F64R68G-B0R	EZR32HG220F64R68G-C0R	Yes
EZR32HG220F64R69G-B0	EZR32HG220F64R69G-C0	Yes
EZR32HG220F64R69G-B0R	EZR32HG220F64R69G-C0R	Yes
EZR32HG320F32R55G-B0	EZR32HG320F32R55G-C0	Yes
EZR32HG320F32R55G-B0R	EZR32HG320F32R55G-C0R	Yes
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EZR32HG320F32R60G-B0R	EZR32HG320F32R60G-C0R	Yes
EZR32HG320F32R61G-B0	EZR32HG320F32R61G-C0	Yes
EZR32HG320F32R61G-B0R	EZR32HG320F32R61G-C0R	Yes
EZR32HG320F32R63G-B0	EZR32HG320F32R63G-C0	Yes
EZR32HG320F32R63G-B0R	EZR32HG320F32R63G-C0R	Yes
EZR32HG320F32R67G-B0	EZR32HG320F32R67G-C0	Yes
EZR32HG320F32R67G-B0R	EZR32HG320F32R67G-C0R	Yes
EZR32HG320F32R68G-B0	EZR32HG320F32R68G-C0	Yes
EZR32HG320F32R68G-B0R	EZR32HG320F32R68G-C0R	Yes
EZR32HG320F32R69G-B0	EZR32HG320F32R69G-C0	Yes
EZR32HG320F32R69G-B0R	EZR32HG320F32R69G-C0R	Yes
EZR32HG320F64R55G-B0	EZR32HG320F64R55G-C0	Yes
EZR32HG320F64R55G-B0R	EZR32HG320F64R55G-C0R	Yes
EZR32HG320F64R60G-B0	EZR32HG320F64R60G-C0	Yes
EZR32HG320F64R60G-B0R	EZR32HG320F64R60G-C0R	Yes
EZR32HG320F64R61G-B0	EZR32HG320F64R61G-C0	Yes
EZR32HG320F64R61G-B0R	EZR32HG320F64R61G-C0R	Yes
EZR32HG320F64R63G-B0	EZR32HG320F64R63G-C0	Yes
EZR32HG320F64R63G-B0R	EZR32HG320F64R63G-C0R	Yes
EZR32HG320F64R67G-B0	EZR32HG320F64R67G-C0	Yes
EZR32HG320F64R67G-B0R	EZR32HG320F64R67G-C0R	Yes
EZR32HG320F64R68G-B0	EZR32HG320F64R68G-C0	Yes
EZR32HG320F64R68G-B0R	EZR32HG320F64R68G-C0R	Yes
EZR32HG320F64R69G-B0	EZR32HG320F64R69G-C0	Yes
EZR32HG320F64R69G-B0R	EZR32HG320F64R69G-C0R	Yes

Last Date of Unchanged Product: 11/13/2019

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>.

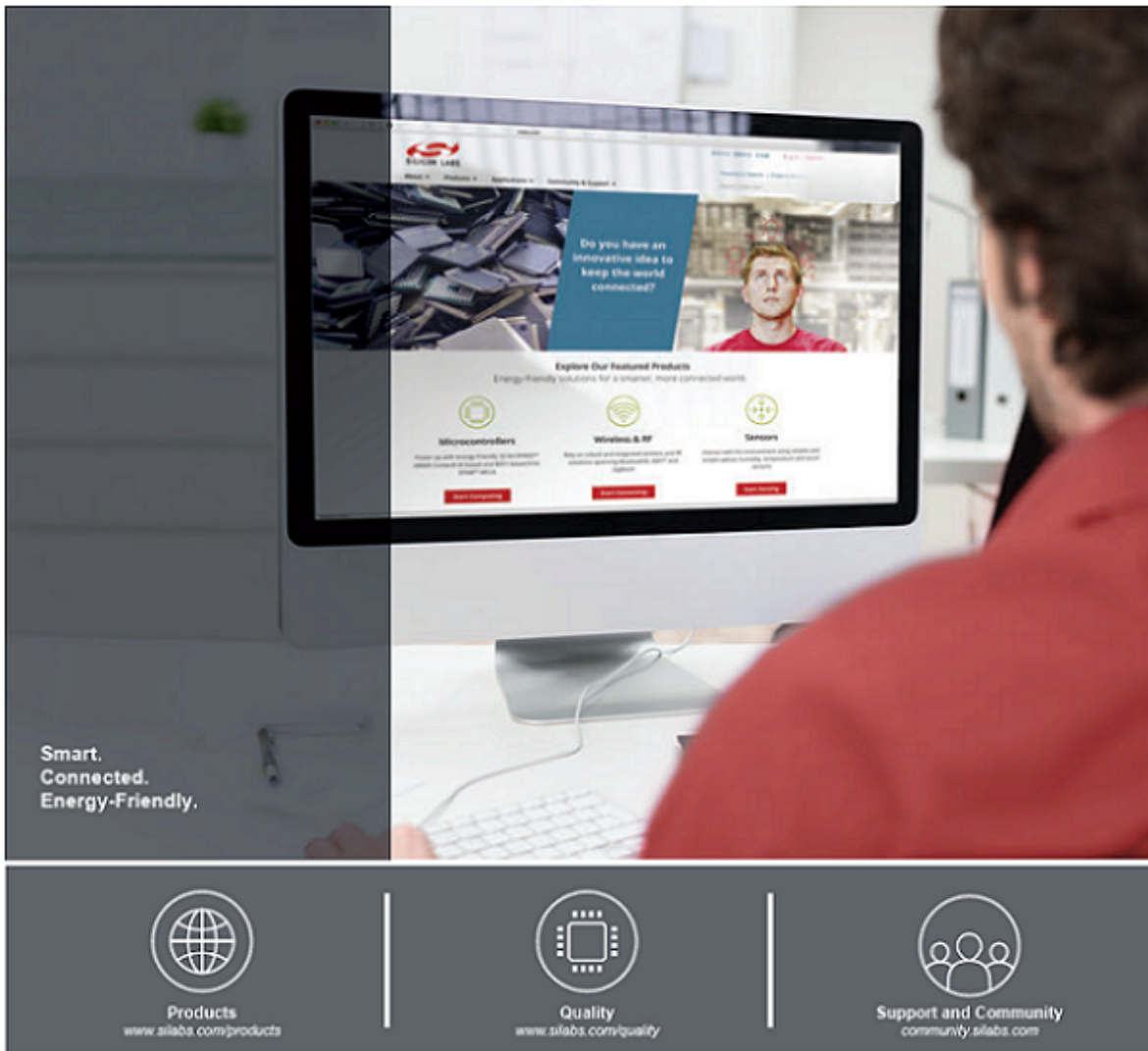
Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCNEarlyAcceptance@silabs.com

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Qualification Data

Available upon request



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