



190802582 EFR32MG12/FG12 Datasheet Revision 1.4 & BG12 Datasheet Revision 1.41

Bulletin Issue Date: 8/2/2019

Effective Date: 8/2/2019

Description of Change

Silicon Labs is pleased to announce Data Sheet Revision 1.4 for EFR32MG12 Mighty Gecko Multi-Protocol and EFR32FG13 Flex Gecko Proprietary Wireless and Data Sheet Revision 1.41 for EFR32BG12 Blue Gecko Bluetooth® Low Energy SoC families.

Notable changes from previous revisions are:

- In Electrical Specifications, reordered and added several footnotes
- In General Operating Conditions, added conditions for all usable wait state settings and corrected maximum specification
- In RF Transmitter Characteristics for 802.15.4 DSSS-OQPSK in the 2.4GHz Band, updated parameter for EVM
- In Sub-GHz RF Transmitter & Receiver characteristics for 915 MHz Band, corrected test conditions and updated typical specification
- In several peripherals and block specifications, updated test conditions
- In Pin Definitions, updated pin descriptions for DECOUPLE and RESETn.
- Updated feature code in package marking

Reason for Change

Updated Data Sheet. There is no change to form, fit, function, quality and reliability.

Product Identification

Existing Part #
EFR32BG12P132F1024GL125-C
EFR32BG12P132F1024GL125-CR
EFR32BG12P132F1024GM48-C
EFR32BG12P132F1024GM48-CR
EFR32BG12P232F512GM68-C
EFR32BG12P232F512GM68-CR
EFR32BG12P232F512IM68-C
EFR32BG12P232F512IM68-CR
EFR32BG12P232F1024GL125-C
EFR32BG12P232F1024GL125-CR
EFR32BG12P232F1024GM48-C
EFR32BG12P232F1024GM48-CR
EFR32BG12P232F1024GM68-C
EFR32BG12P232F1024GM68-CR
EFR32BG12P232F1024IM68-C
EFR32BG12P232F1024IM68-CR
EFR32BG12P332F1024GL125-C
EFR32BG12P332F1024GL125-CR
EFR32BG12P332F1024GM48-C
EFR32BG12P332F1024GM48-CR
EFR32BG12P332F1024IM48-C
EFR32BG12P332F1024IM48-CR
EFR32BG12P433F1024GL125-C
EFR32BG12P433F1024GL125-CR
EFR32BG12P433F1024GM48-C
EFR32BG12P433F1024GM48-CR

EFR32BG12P433F1024GM68-C
EFR32BG12P433F1024GM68-CR
EFR32BG12P433F1024IM68-C
EFR32BG12P433F1024IM68-CR
EFR32BG12P432F1024GL125-C
EFR32BG12P432F1024GL125-CR
EFR32BG12P432F1024GM48-C
EFR32BG12P432F1024GM48-CR
EFR32FG12P232F1024GL125-C
EFR32FG12P232F1024GL125-CR
EFR32FG12P232F1024GM48-C
EFR32FG12P232F1024GM48-CR
EFR32FG12P231F512GM68-C
EFR32FG12P231F512GM68-CR
EFR32FG12P231F1024GL125-C
EFR32FG12P231F1024GL125-CR
EFR32FG12P231F1024GM48-C
EFR32FG12P231F1024GM48-CR
EFR32FG12P231F1024GM68-C
EFR32FG12P231F1024GM68-CR
EFR32FG12P231F1024GL125-C
EFR32FG12P231F1024GL125-CR
EFR32FG12P231F1024GM48-C
EFR32FG12P231F1024GM48-CR
EFR32FG12P231F1024GM68-C
EFR32FG12P231F1024GM68-CR
EFR32FG12P433F1024GL125-C
EFR32FG12P433F1024GL125-CR
EFR32FG12P433F1024GM48-C
EFR32FG12P433F1024GM48-CR
EFR32FG12P433F1024GM68-C
EFR32FG12P433F1024GM68-CR
EFR32FG12P432F1024GL125-C
EFR32FG12P432F1024GL125-CR
EFR32FG12P432F1024GM48-C
EFR32FG12P432F1024GM48-CR
EFR32FG12P431F512GM68-C
EFR32FG12P431F512GM68-CR
EFR32FG12P431F1024GL125-C
EFR32FG12P431F1024GL125-CR
EFR32FG12P431F1024GM48-C
EFR32FG12P431F1024GM48-CR
EFR32FG12P431F1024GM68-C
EFR32FG12P431F1024GM68-CR
EFR32FG12P431F1024IM48-C
EFR32FG12P431F1024IM48-CR
EFR32MG12P132F512GM68-C
EFR32MG12P132F512GM68-CR
EFR32MG12P132F1024GL125-C
EFR32MG12P132F1024GL125-CR
EFR32MG12P132F1024GM48-C
EFR32MG12P132F1024GM48-CR
EFR32MG12P232F512GM68-C
EFR32MG12P232F512GM68-CR
EFR32MG12P232F1024GL125-C
EFR32MG12P232F1024GL125-CR
EFR32MG12P232F1024GM48-C
EFR32MG12P232F1024GM48-CR
EFR32MG12P232F1024GM68-C
EFR32MG12P232F1024GM68-CR
EFR32MG12P231F1024GM68-C
EFR32MG12P231F1024GM68-CR
EFR32MG12P332F1024GL125-C
EFR32MG12P332F1024GL125-CR
EFR32MG12P332F1024GM48-C
EFR32MG12P332F1024GM48-CR
EFR32MG12P332F1024IM48-C
EFR32MG12P332F1024IM48-CR
EFR32MG12P433F1024GL125-C
EFR32MG12P433F1024GL125-CR
EFR32MG12P433F1024GM48-C
EFR32MG12P433F1024GM48-CR
EFR32MG12P433F1024GM68-C

EFR32MG12P433F1024GM68-CR
EFR32MG12P433F1024IL125-C
EFR32MG12P433F1024IL125-CR
EFR32MG12P433F1024IM48-C
EFR32MG12P433F1024IM48-CR
EFR32MG12P432F1024GL125-C
EFR32MG12P432F1024GL125-CR
EFR32MG12P432F1024GM48-C
EFR32MG12P432F1024GM48-CR
EFR32MG12P432F1024GM68-C
EFR32MG12P432F1024GM68-CR
EFR32MG12P432F1024IM48-C
EFR32MG12P432F1024IM48-CR
EFR32MG12P431F1024GM68-C
EFR32MG12P431F1024GM68-CR

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:

Review Data Sheet.

User Registration

Register today to create your account on Silabs.com. Your personalized profile allows you to receive technical document updates, new product announcements, "how-to" and design documents, product change notices (PCN) and other valuable content available only to registered users. <http://www.silabs.com/profile>



Disclaimer

Silicon Labs intends to provide customers with the latest, accurate, and in-depth documentation of all peripherals and modules available for system and software implementers using or intending to use the Silicon Labs products. Characterization data, available modules and peripherals, memory sizes and memory addresses refer to each specific device, and "Typical" parameters provided can and do vary in different applications. Application examples described herein are for illustrative purposes only. Silicon Labs reserves the right to make changes without further notice and limitation to product information, specifications, and descriptions herein, and does not give warranties as to the accuracy or completeness of the included information. Silicon Labs shall have no liability for the consequences of use of the information supplied herein. This document does not imply or express copyright licenses granted hereunder to design or fabricate any integrated circuits. The products are not designed or authorized to be used within any Life Support System without the specific written consent of Silicon Labs. A "Life Support System" is any product or system intended to support or sustain life and/or health, which, if it fails, can be reasonably expected to result in significant personal injury or death. Silicon Labs products are not designed or authorized for military applications. Silicon Labs products shall under no circumstances be used in weapons of mass destruction including (but not limited to) nuclear, biological or chemical weapons, or missiles capable of delivering such weapons.

Trademark Information

Silicon Laboratories Inc.®, Silicon Laboratories®, Silicon Labs®, SiLabs® and the Silicon Labs logo®, Bluegiga®, Bluegiga Logo®, Clockbuilder®, CMEMS®, DSPLL®, EFM®, EFM32®, EFR, Ember®, Energy Micro, Energy Micro logo and combinations thereof, "the world's most energy friendly microcontrollers", Ember®, EZLink®, EZRadio®, EZRadioPRO®, Gecko®, ISOModem®, Micrium, Precision32®, ProSLIC®, Simplicity Studio®, SiPHY®, Telegesis, the Telegesis Logo®, USBXpress®, Zentri and others are trademarks or registered trademarks of Silicon Labs. ARM, CORTEX, Cortex-M3 and THUMB are trademarks or registered trademarks of ARM Holdings. Keil is a registered trademark of ARM Limited. All other products or brand names mentioned herein are trademarks of their respective holders.



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

<http://www.silabs.com>