



2306151463 EFM32GG v2.1 Datasheet Release

Bulletin Issue Date: Jun 15, 2023

Effective Date: Jun 15, 2023

Description of Change

Silicon Labs is pleased to announce the release of datasheet v2.1 for EFM32GG devices.

Summary of the changes (please refer to the datasheet revision history for a complete list of changes):

- Added SysTick System Timer to 1. Feature List.
- Added EOL note to Full Wafer package in 1. Feature List and 2. Ordering Information
- Added junction temperature range to 4.2 Absolute Maximum Ratings
- Added 4.4 Backup Supply Domain.
- Updated ADC input ON resistance (RADCIN) in 4.11 Analog Digital Converter (ADC).
- 4.12 Digital Analog Converter (DAC) - Added max load current specification.
- 10.2 QFN64 PCB Layout - Corrected pin number for symbol P9.
- Removed PB11 as the 1st alternate location of I2C1_SDA in Alternate Functionality Overview tables for EFM32GG232, EFM32GG332, EFM32GG842 and EFM32GG942.

Link to datasheet: <https://www.silabs.com/documents/public/data-sheets/efm32gg-datasheet.pdf>

Reason for Change

Datasheet update from v2.0 to v2.1

Product Identification

Existing Part

EFM32GG230F512G-E-QFN64
 EFM32GG230F512G-E-QFN64R
 EFM32GG230F1024G-E-QFN64
 EFM32GG230F1024G-E-QFN64R
 EFM32GG232F512G-E-QFP64
 EFM32GG232F512G-E-QFP64R
 EFM32GG232F1024G-E-QFP64
 EFM32GG232F1024G-E-QFP64R
 EFM32GG280F512G-E-QFP100
 EFM32GG280F512G-E-QFP100R
 EFM32GG280F1024G-E-QFP100
 EFM32GG280F1024G-E-QFP100R
 EFM32GG290F512G-E-BGA112
 EFM32GG290F512G-E-BGA112R
 EFM32GG290F1024G-E-BGA112
 EFM32GG290F1024G-E-BGA112R
 EFM32GG295F512G-E-BGA120
 EFM32GG295F512G-E-BGA120R
 EFM32GG295F1024G-E-BGA120
 EFM32GG295F1024G-E-BGA120R
 EFM32GG330F512G-E-QFN64
 EFM32GG330F512G-E-QFN64R
 EFM32GG330F1024G-E-QFN64
 EFM32GG330F1024G-E-QFN64R
 EFM32GG332F512G-E-QFP64
 EFM32GG332F512G-E-QFP64R
 EFM32GG332F1024G-E-QFP64
 EFM32GG332F1024G-E-QFP64R
 EFM32GG380F512G-E-QFP100

EFM32GG380F512G-E-QFP100R
EFM32GG380F1024G-E-QFP100
EFM32GG380F1024G-E-QFP100R
EFM32GG390F512G-E-BGA112
EFM32GG390F512G-E-BGA112R
EFM32GG390F1024G-E-BGA112
EFM32GG390F1024G-E-BGA112R
EFM32GG395F512G-E-BGA120
EFM32GG395F512G-E-BGA120R
EFM32GG395F1024G-E-BGA120
EFM32GG395F1024G-E-BGA120R
EFM32GG840F512G-E-QFN64
EFM32GG840F512G-E-QFN64R
EFM32GG840F1024G-E-QFN64
EFM32GG840F1024G-E-QFN64R
EFM32GG842F512G-E-QFP64
EFM32GG842F512G-E-QFP64R
EFM32GG842F1024G-E-QFP64
EFM32GG842F1024G-E-QFP64R
EFM32GG880F512G-E-QFP100
EFM32GG880F512G-E-QFP100R
EFM32GG880F1024G-E-QFP100
EFM32GG880F1024G-E-QFP100R
EFM32GG890F512G-E-BGA112
EFM32GG890F512G-E-BGA112R
EFM32GG890F1024G-E-BGA112
EFM32GG890F1024G-E-BGA112R
EFM32GG895F512G-E-BGA120
EFM32GG895F512G-E-BGA120R
EFM32GG895F1024G-E-BGA120
EFM32GG895F1024G-E-BGA120R
EFM32GG900F512G-E-D1I
EFM32GG900F1024G-E-D1I
EFM32GG940F512G-E-QFN64
EFM32GG940F512G-E-QFN64R
EFM32GG940F1024G-E-QFN64
EFM32GG940F1024G-E-QFN64R
EFM32GG942F512G-E-QFP64
EFM32GG942F512G-E-QFP64R
EFM32GG942F1024G-E-QFP64
EFM32GG942F1024G-E-QFP64R
EFM32GG980F512G-E-QFP100
EFM32GG980F512G-E-QFP100R
EFM32GG980F1024G-E-QFP100
EFM32GG980F1024G-E-QFP100R
EFM32GG990F512G-E-BGA112
EFM32GG990F512G-E-BGA112R
EFM32GG990F1024G-E-BGA112
EFM32GG990F1024G-E-BGA112R
EFM32GG995F512G-E-BGA120
EFM32GG995F512G-E-BGA120R
EFM32GG995F1024G-E-BGA120
EFM32GG995F1024G-E-BGA120R

Kit Identification

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.

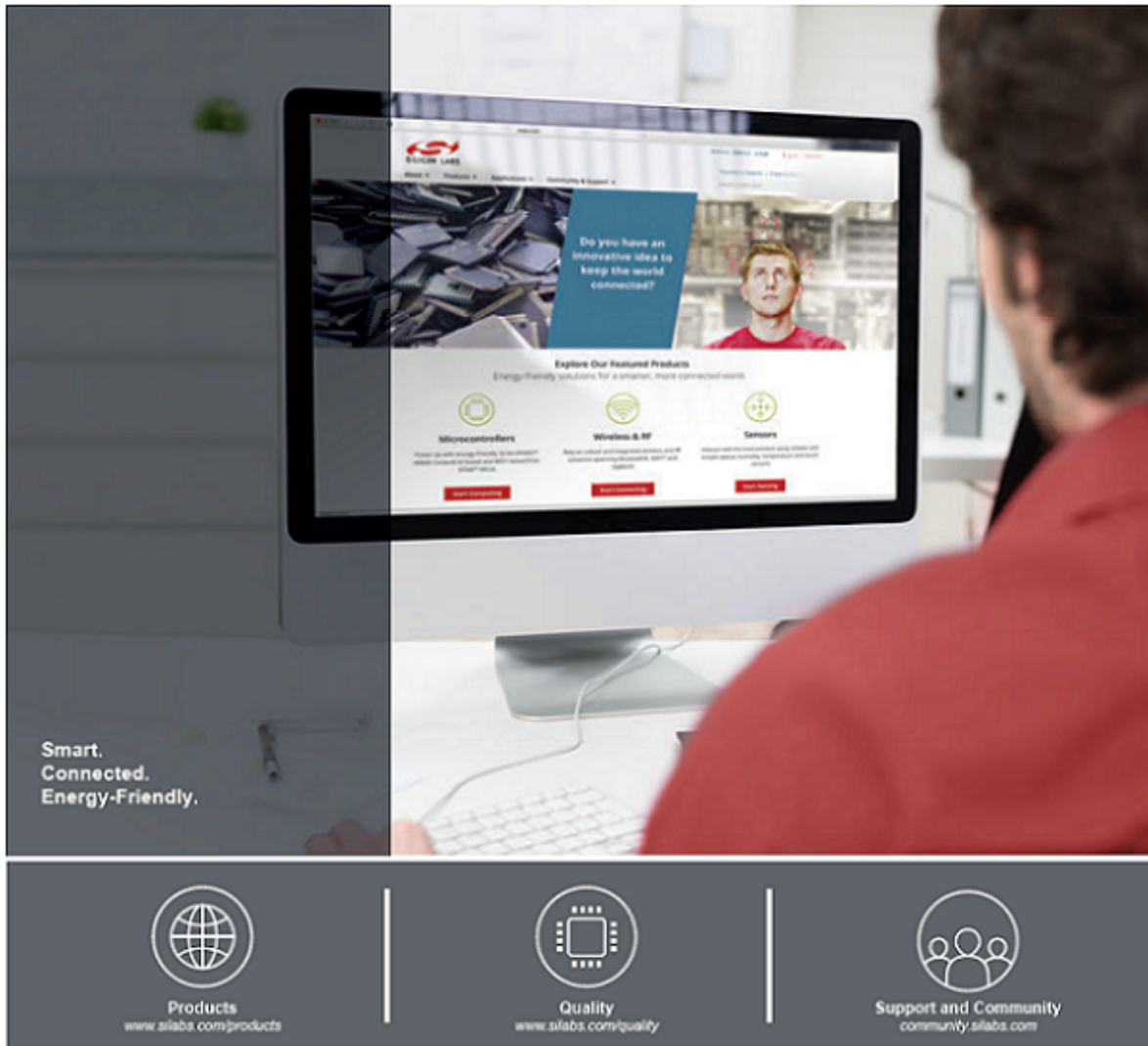
Please contact your local Silicon Labs sales representative with any questions about this notification. A list of Silicon Labs sales representatives may be found at <http://www.silabs.com>.

Customer Actions Needed:

Review updated datasheet.

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>