



2105111044 MGM13S and BGM13S v1.2 Datasheet Release

PCN Issue Date: May 11, 2021

Effective Date: Aug 17, 2021

PCN Type: Datasheet

Description of Change

Silicon Labs is pleased to announce the release of the following datasheet versions for MGM13S and BGM13S modules:
MGM13S Datasheet Release v1.2
BGM13S Datasheet Release v1.2

Reason for Change

Changes in MGM13S Datasheet Revision v1.2

- In the front page block diagram, updated the lowest energy mode for LETIMER.
- Updated 3.6.4 Low Energy Timer (LETIMER) lowest energy mode.
- Changed "BLE" to "Bluetooth Low Energy" and "Bluetooth 5.0 LE" to "Bluetooth 5" throughout.
- Updated 5.1 Typical MGM13S Connections with additional notes regarding power supply and reset recommendations. Added external antenna configurations and added reference to AN0016.1.
- Added reference to AN1223 and updated 10.1 Soldering Recommendations section.
- Added reference to AN1048 in 11. Certifications section.
- Corrected Korean package marking in MGM13S Package Marking table.

Changes in BGM13S Datasheet Revision v1.2

- In the front page block diagram, updated the lowest energy mode for LETIMER.
- Updated 3.6.4 Low Energy Timer (LETIMER) lowest energy mode.
- Corrected factory Gecko bootloader SDK version and bootloader pin functionality 7.2 GPIO Functionality Table; 7.3 Alternate Functionality Overview.
- Changed "Bluetooth 5.0 LE" to "Bluetooth 5" throughout.
- Updated 5.1 Typical BGM13S Connections with additional external antenna configuration and added reference to AN0016.1.
- Added reference to AN1223 and updated 10.1 Soldering Recommendations section.
- Added reference to AN1048 in 11. Certifications section.
- Corrected Korean package marking in BGM13S Package Marking table.

Impact on Form, Fit, Function, Quality, Reliability

No impact on fit, function, quality or reliability. Form is impacted as described in the Change Reason section.

Product Identification

Existing Part #
BGM13S22F512GA-V3
BGM13S22F512GA-V3R
BGM13S22F512GN-V3
BGM13S22F512GN-V3R
BGM13S32F512GA-V3
BGM13S32F512GA-V3R
BGM13S32F512GN-V3
BGM13S32F512GN-V3R
BGM13S32P*GA-V3
BGM13S32P*GA-V3R
MGM13S02F512GA-V3
MGM13S02F512GA-V3R
MGM13S02F512GN-V3
MGM13S02F512GN-V3R
MGM13S12F512GA-V3

MGM13S12F512GA-V3R
MGM13S12F512GN-V3
MGM13S12F512GN-V3R

Last Date of Unchanged Product: Aug 17, 2021

Qualification Samples

N/A

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

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>

Qualification Data

N/A



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>