



2405311538 Additional Assembly, Test and Ship Site for xGM220P Modules

PCN Issue Date: May 31, 2024

Effective Date: Sep 05, 2024

PCN Type: Assembly; Test

Description of Change

Silicon Labs is pleased to announce the successful qualification of STARS (STARS Microelectronics) as an additional assembly, test and ship site for BGM220P and MGM220P (xGM220P) module production. There is no change in Test program. STARS is certified to ISO9001, ISO14001 and IATF 16949.

As of the effective date of this PCN, Silicon Labs will start assembling, testing and shipping xGM220P modules from STARS.

STARS Ship Address:
STARS Microelectronics (Thailand) PCL
Bang Pa-In Industrial Estate (I-EA-T Free Zone), 605-606 Moo 2, Klongjig, Bang Pa-In
Ayutthaya 13160, Thailand

Reason for Change

The additional assembly and test location will provide additional capacity for supply assurance.

Impact on Form, Fit, Function, Quality, Reliability

No change to Form, Fit, Function, Quality or Reliability.

Product Identification

Existing Part #
MGM220PC22HNA2
MGM220PC22HNA2R
BGM220PC22HNA2
BGM220PC22HNA2R
BGM220PC22WGA2
BGM220PC22WGA2R
BM22P2WGPZ026A2
BM22P2WGPZ026A2R
BM22P2WGPZ027A2
BM22P2WGPZ027A2R
BM22P2WGPZ048A2
BM22P2WGPZ048A2R

Last Date of Unchanged Product: Sep 05, 2024

Qualification Samples

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 PCN@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

Please refer to qualification report below.

BGM220P, MGM220P, BGX220P Qualification Report



BGM220P, MGM220P, BGX220P DELTA China assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
Preconditioning	JESD22-A113 MSL3: 260°C 30°C / 60%RH / 192 Hr	1 lot, N=>10	Q045504	0/12	2 3	3 lots 0/39	Pass
			Q049864	0/12			
			Q051218	0/15			
Temp Cycle	JESD22-A104 Cond G: -40°C to 125°C 850 cycles	1 lot, N=>10	Q045506	0/12	1 1,2 1,3	3 lots 0/35	Pass
			Q049873	0/11			
			Q051219	0/12			
Test Group C – Package Assembly Integrity Tests							
Mechanical Shock	JESD22-B110, Cond. B (1500g)	1 lot, N=>10	Q045509	0/10	2 3	3 lots 0/30	Pass
			Q049861	0/10			
			Q051220	0/10			
Mechanical Vibration	JESD22-B103, Cond. 1 (20-2000Hz)	1 lot, N=>10	Q045510	0/10	2 3	3 lots 0/30	Pass
			Q049862	0/10			
			Q051217	0/10			
Cleanliness Assessment	IPC-TM-650 2.3.28B	1 lot, N=>10	Q045511	0/10	2 3	3 lots 0/30	Pass
			Q049860	0/10			
			Q051221	0/10			
Test Group E – Electrical Verification							
ESD-CDM	JS-002	1 lot, N=>3	Q045561	0/3	2 3	500V 500V 500V	Class 2a Class 2a Class 2a
			Q049866	0/3			
			Q051216	0/3			

- Notes:
- Parts are Pre-conditioned at MSL3/260°C
 - RYDER China assembly
 - STARS MICROELECTRONICS Thailand assembly

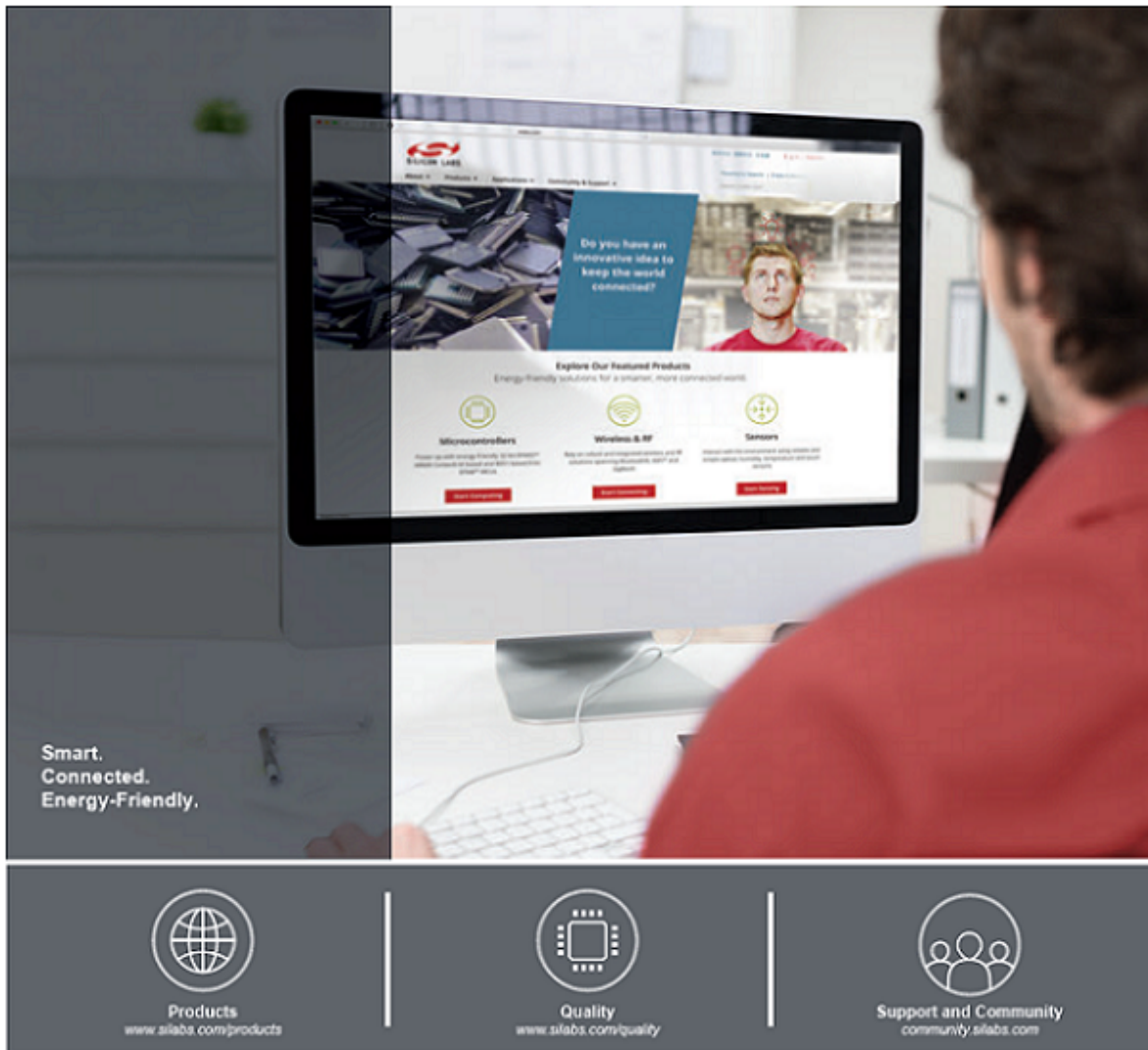
This report applies to the following part numbers:	
BGM220P	BGX220P
MGM220P	

The information contained in this document is PROPRIETARY to Silicon Labs and shall not be reproduced or used in part or whole without Silicon Labs' written consent. The document is uncontrolled if printed or electronically saved.

Approved by: Wilson Choy

1 of 1

Prepared on: 07-May-24



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>