



Revision Change Notice #1410081

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PCN Date: 10/8/2014		Effective Date: 1/14/2015	
Title: Si102x and Si103x Rev B-GM3-PCN			
Originator: Mendy Ouzillou		Phone: 408-702-1318	Dept: IoT Marketing
Customer Contact: Kathy Haggar		Phone: 512-532-5261	Dept: Sales
PCN Type:			
<input checked="" type="checkbox"/> Datasheet			
<input checked="" type="checkbox"/> Product Revision			
PCN Details			
Description of Change:			
Silicon Labs is pleased to announce revision B-GM3 of the Si102x/103x devices and release of revision 1.0 of the corresponding datasheet for these products.			
The new version has improved the IC manufacturability of the part by increasing the ground pad size and splitting the ground pad itself into 2 areas of the IC substrate.			
The following datasheet changes have been made:			
DOCUMENT CHANGE LIST			
Revision 0.3 to Revision 1.0			
1) Updated part numbers to Revision B.			
2) Updated device package mechanical spec and PCB land pattern.			
3) Updated electrical specifications, including TBD values.			
4) Updated EZRadioPro Version Code.			
5) Removed support for EZRadioPro Low Battery Detect feature.			
6) Deleted SFR Page Stack Example in Special Function Registers chapter.			
7) Change description of SFRPGEN bit in SFRPGCN SFR definition.			
8) Added paragraph to Flash chapter to explain lock byte behavior on 128 kB devices.			
9) Corrected SFRPAGE in SPI1 SFR definitions.			
10) Fixed inconsistencies in VIORF pin definitions.			
11) Added note about IFBANK usage.			
12) Fixed inconsistencies in description of reset behavior.			
13) Added encryption/decryption times to SFR Definition.			
14) Fixed inconsistencies in various SFR Definitions.			
After the effective date of this PCN, Silicon Labs reserves the right to deliver Si102x-B-GM3 and Si103x-B-GM3 for customers ordering the previous product revision.			
Reason for Change:			
The substrate on the IC package has been changed to improve IC manufacturability. The substrate was changed and the ground pad size was increased. The new revision does not change pin ordering or orientation of the si102x and Si103x, but does requires a change to the PCB landing pattern and soldering stencil, as described in the data sheet.			



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Impact on Form, Fit, Function, Quality, Reliability:

There is no change to fit, function, quality or reliability of these devices. The change to form is documented in section 3.1 of the Si102x-3x revision 1.0 data sheet.

Section 3.1 of the 1.0 of the data sheet includes updates to the package specification, land pattern and solder stencil.

Note that the new package is not backwards compatible with the previous chip package version's PCB landing pattern and soldering stencil.



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Product Identification:		
Existing Part Number	Replacement Part Number	Drop in Compatible Indicator
SI1020-A-GM	SI1020-B-GM3	See Data Sheet
SI1020-A-GMR	SI1020-B-GM3R	See Data Sheet
SI1020-B-GM2	SI1020-B-GM3	See Data Sheet
SI1020-B-GM2R	SI1020-B-GM3R	See Data Sheet
SI1021-A-GM	SI1021-B-GM3	See Data Sheet
SI1021-A-GMR	SI1021-B-GM3R	See Data Sheet
SI1021-B-GM2	SI1021-B-GM3	See Data Sheet
SI1021-B-GM2R	SI1021-B-GM3R	See Data Sheet
SI1022-A-GM	SI1022-B-GM3	See Data Sheet
SI1022-A-GMR	SI1022-B-GM3R	See Data Sheet
SI1022-B-GM2	SI1022-B-GM3	See Data Sheet
SI1022-B-GM2R	SI1022-B-GM3R	See Data Sheet
SI1023-A-GM	SI1023-B-GM3	See Data Sheet
SI1023-A-GMR	SI1023-B-GM3R	See Data Sheet
SI1023-B-GM2	SI1023-B-GM3	See Data Sheet
SI1023-B-GM2R	SI1023-B-GM3R	See Data Sheet
SI1024-A-GM	SI1024-B-GM3	See Data Sheet
SI1024-A-GMR	SI1024-B-GM3R	See Data Sheet
SI1024-B-GM2	SI1024-B-GM3	See Data Sheet
SI1024-B-GM2R	SI1024-B-GM3R	See Data Sheet
SI1025-A-GM	SI1025-B-GM3	See Data Sheet
SI1025-A-GMR	SI1025-B-GM3R	See Data Sheet
SI1025-B-GM2	SI1025-B-GM3	See Data Sheet
SI1025-B-GM2R	SI1025-B-GM3R	See Data Sheet
SI1026-A-GM	SI1026-B-GM3	See Data Sheet
SI1026-A-GMR	SI1026-B-GM3R	See Data Sheet
SI1026-B-GM2	SI1026-B-GM3	See Data Sheet
SI1026-B-GM2R	SI1026-B-GM3R	See Data Sheet
SI1027-A-GM	SI1027-B-GM3	See Data Sheet
SI1027-A-GMR	SI1027-B-GM3R	See Data Sheet
SI1027-B-GM2	SI1027-B-GM3	See Data Sheet
SI1027-B-GM2R	SI1027-B-GM3R	See Data Sheet
SI1030-A-GM	SI1030-B-GM3	See Data Sheet
SI1030-A-GMR	SI1030-B-GM3R	See Data Sheet
SI1030-B-GM2	SI1030-B-GM3	See Data Sheet
SI1030-B-GM2R	SI1030-B-GM3R	See Data Sheet



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SI1031-A-GM	Si1031-B-GM3	See Data Sheet
SI1031-A-GMR	Si1031-B-GM3R	See Data Sheet
SI1031-B-GM2	Si1031-B-GM3	See Data Sheet
SI1031-B-GM2R	Si1031-B-GM3R	See Data Sheet
SI1032-A-GM	Si1032-B-GM3	See Data Sheet
SI1032-A-GMR	Si1032-B-GM3R	See Data Sheet
SI1032-B-GM2	Si1032-B-GM3	See Data Sheet
SI1032-B-GM2R	Si1032-B-GM3R	See Data Sheet
SI1033-A-GM	Si1033-B-GM3	See Data Sheet
SI1033-A-GMR	Si1033-B-GM3R	See Data Sheet
SI1033-B-GM2	Si1033-B-GM3	See Data Sheet
SI1033-B-GM2R	Si1033-B-GM3R	See Data Sheet
SI1034-A-GM	Si1034-B-GM3	See Data Sheet
SI1034-A-GMR	Si1034-B-GM3R	See Data Sheet
SI1034-B-GM2	Si1034-B-GM3	See Data Sheet
SI1034-B-GM2R	Si1034-B-GM3R	See Data Sheet
SI1035-A-GM	Si1035-B-GM3	See Data Sheet
SI1035-A-GMR	Si1035-B-GM3R	See Data Sheet
SI1035-B-GM2	Si1035-B-GM3	See Data Sheet
SI1035-B-GM2R	Si1035-B-GM3R	See Data Sheet
SI1036-A-GM	Si1036-B-GM3	See Data Sheet
SI1036-A-GMR	Si1036-B-GM3R	See Data Sheet
SI1036-B-GM2	Si1036-B-GM3	See Data Sheet
SI1036-B-GM2R	Si1036-B-GM3R	See Data Sheet
SI1037-A-GM	Si1037-B-GM3	See Data Sheet
SI1037-A-GMR	Si1037-B-GM3R	See Data Sheet
SI1037-B-GM2	Si1037-B-GM3	See Data Sheet
SI1037-B-GM2R	Si1037-B-GM3R	See Data Sheet

Note: The part numbers above include tape and reel variants which are denoted with an “R” at the end of the orderable part number.

Last Date of Unchanged Product: 1/14/2015

Qualification Samples:

Samples are available now. Please contact your Silicon Labs sales representative to order samples. A list of Silicon Labs sales representatives is available at www.silabs.com.



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Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at www.silabs.com.

In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.

Customer Early Acceptance Sign Off:

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance: Date: _____

 Name: _____

 Company: _____

Email your early Acceptance approval to: katherine.hagggar@silabs.com

Qualification Data:

Qualification data is available upon request.