



191118655 BGX13S Revision V31 Modules Available

PRCN Issue Date: 11/18/2019

Effective Date: 2/24/2020

PCN Type: Product Revision

Description of Change

Silicon Labs is pleased to announce revision V31 for BGX13S and module families, updating the embedded SoC to EFR32xG13 revD and packaging updates. The new module revisions are pin-compatible replacements for the previous revision devices. The respective Data Sheets are revised to version 1.1.

Rev V31 comes pre-programmed with version 1.2.2045.0 of Bluetooth Xpress firmware, which includes features such as LE coded 'long range' PHY, 2M PHY, an I2C master interface, GPIO event monitoring, and more. For a complete list of features, please see the release notes here:

<https://docs.silabs.com/gecko-os/1/bgx/latest/release-notes>

Rev V31 also removes the requirement to use an external 32 KHz crystal, which is typically required for Bluetooth low energy devices, including BGX13S-V21 modules. Please see the updated Data Sheet's typical connection diagram for more information.

The changes in assembly packaging are as follows:

1. Substrate to ENPIG plating due to plating line End of Life (EOL)
2. Additional vias added to the substrate for RF robustness.

After the effective date of the PRCN, Silicon Labs reserves the right to deliver product revision V31 for customers ordering product revision V21.

Reason for Change

Update to new revision SoC and substrate plating line EOL, and updated firmware to include all supported Bluetooth Xpress features.

Impact on Form, Fit, Function, Quality, Reliability

There is no impact on form, fit, quality or reliability. Function changes are related to update of the firmware version.

Product Identification

Existing Part #	Replacement Part #	DropInCompInd.
BGX13S22GA-V21	BGX13S22GA-V31	Yes
BGX13S22GA-V21R	BGX13S22GA-V31R	Yes

Last Date of Unchanged Product: 2/24/2020

Qualification 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 PCNEarlyAcceptance@silabs.com

User Registration

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Qualification Data

Available upon request.



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