191004641 Si4464 B1B/B1C EZRadioPRO Transceivers Freq Range 479-640 MHz not Supported

PCN Issue Date: 10/4/2019 **Effective Date:** 1/9/2020

PCN Type: Errata

Description of Change

Silicon Labs announces an errata concerning Si4464 RevB1B/B1C EZRadioPRO transceivers. Please see below for more details.

Reason for Change

Center band frequencies 479-640 MHz is not supported.

Impact on Form, Fit, Function, Quality, Reliability

There is no change to form, fit, quality or reliability. Function is impacted as described below:

Using the radio at a center frequency in the 470-639 MHz band requires the use of the divide by 6 output divider (DIV6) of the synthesizer. The divider is selected by setting the BAND field of the MODEM_CLKGEN_BAND property to 1. Depending on runtime conditions, such as supply voltage, DIV6 can go into a failure state and stay there until it is reset by restarting RX state.

In the failure state, the receiver cannot receive. Restarting the receive state (by using START_RX API command) can recover the receiver, but it can get halted again after running for some time. As a result, the 470-639 MHz band cannot be used. This affects only the Si4464-B1B.

For the 470-479MHz band, the DIV8 divider can be used alternatively. For details see the frequency control section in the data sheet. No workaround exists for the 479-639 MHz band.

There is no change to form, fit, quality or reliability.

Product Identification

```
Si4060-B1B-FM
Si4460-B1B-FM
Si4461-B1B-FM
Si4063-B1B-FM
Si4463-B1B-FM
Si4362-B1B-FM
Si4438-B1C-FM
Si4464-B1B-FM
```

Last Date of Unchanged Product: 1/9/2020

Qualification Samples

NA

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.
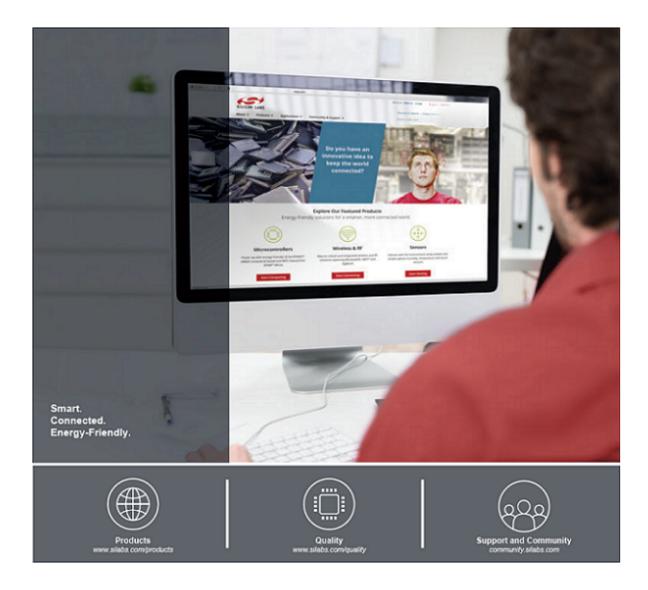
Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCNEarlyAcceptance@silabs.com

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

NA

Smart.
Connected.
Energy-Friendly.

Products	Quality	Support and Community
www.silabs.com/products	www.silabs.com/quality	community.silabs.com

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