201208950 EFR32ZG14 Datasheet Release v1.1

PCN Issue Date: 12/8/2020 **Effective Date:** 3/12/2021

PCN Type: Datasheet

Description of Change

Silicon Labs is pleased to announce the release of datasheet version 1.1 for the EFR32ZG14 devices.

SOFTWARE IMPACT DESCRIPTION:
GSDK version 3.1 will support the changes mentioned in the Change Reason section, including the support for the new Z-Wave Long Range. Please refer to the GSDK version 3.1 release notes for details.

Reason for Change

Revision 1.1
- In Section 1 “Feature List”, updated MCU peripherals and GPIO.
  - Updated maximum TX power to 14 dBm.
  - Updated list of modulation formats. Removed 4 (G)FSK, added DSSS O-QPSK.
- In Section 2 “Ordering Information”, updated GPIO and maximum TX power to 14 dBm.
- In Section 3.3 “Radio Interface” updated Figure 3.2 "Radio Interface with IPD" on page 6 and added Figure 3.3 "Radio Interface with Balun for Z-Wave Long Range" on page 6.
- In Section 3.4 “Embedded Interface” updated active-low SUSPENDn signal and PTI interface signals, updated Figure 3.4 "Host Interface Connections" on page 7.
- In Section 4.1.5 “Current Consumption” updated current consumptions for 912 MHz O-QPSK.
- In Section 4.1.7.1 “Sub-GHz RF Transmitter characteristics for 915 MHz Band”:
  - Corrected FCC reference for non-restricted bands in:
    - SPURHARM_FCC_14
    - SPUROOB_FCC_14
  - Corrected FCC reference for PSD
- Added Section 4.1.7.2 “Sub-GHz RF Transmitter characteristics for 915 MHz Band, +14 dBm”.
- In Section 4.1.7.3 “Sub-GHz RF Receiver Characteristics for 915 MHz Band”, updated the maximum specification for SPURRX_ARIB, 930-1000 MHz, RBW=100 kHz. Added sensitivity, image rejection and blocking sensitivity for 912 MHz OQPSK PHY.
- In Section 5 “Typical Connection Diagrams”, updated figure and added another connection diagram for Z-Wave Long Range.
- In Section 6 “EFR32ZG14 Device Pinout” updated figure and Table 6.1 “EFR32ZG14 Device Pinout” on page 27 for pin 20 and pin 21.

Impact on Form, Fit, Function, Quality, Reliability

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

Product Identification

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Existing Part #
EFR32ZG14P231F256GM32-B
EFR32ZG14P231F256GM32-BR
EFR32ZG14P231P*GM32-B
EFR32ZG14P231P*GM32-BR
EFR32ZG14P*31F256GM32-B
EFR32ZG14P*31F256GM32-BR
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Last Date of Unchanged Product: 3/12/2021

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.

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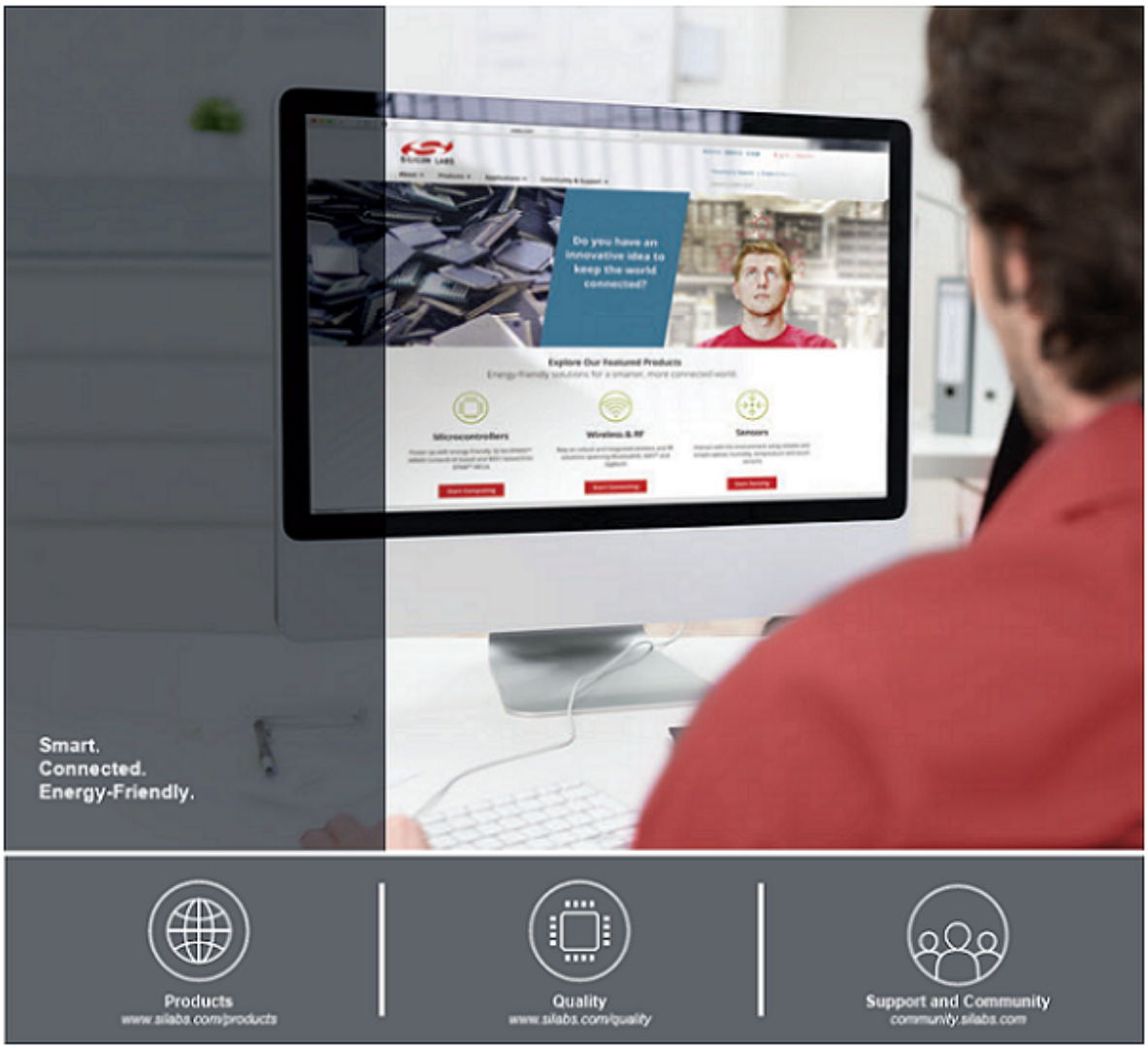
Qualification Data

N/A



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