



180626337 EFR32BG12, EFR32FG12 and EFR32MG12 Data Sheet Revision 1.3

Bulletin Issue Date: 6/26/2018

Effective Date: 6/26/2018

Description of Change

Silicon Labs is pleased to announce the availability of the QFN68 package for EFR32BG12 SoCs. The new 68 pin package provides 46 GPIO in an 8x8 QFN68 package. The EFR32BG12 data sheet has been updated to add the new QFN68 OPNs and associated specifications.

In addition, the EFR32BG12, EFR32FG12 and EFR32MG12 devices were incorrectly detecting an 802.15.4 preamble and trying to receive a packet. During a capture in the Network Analyzer tool, this would appear as a missed packet. The PHY firmware for 802.15.4 was updated to reduce the possibility of these "false detects". The impact of the new firmware is an additional 200 uA of current in receive modes for 802.15.4. The data sheets have been updated to reflect this increased power consumption. The versions of software that implemented this change are:

- Flex SDK 2.3.0
- EmberZNet 6.3.0
- Thread SDK 2.7.0

See the EFR32BG12, EFR32FG12 and EFR32MG12 revision 1.3 data sheet history for a complete list of changes.

Reason for Change

Data Sheet update for new OPNs and change to RX current for 802.15.4 based on new SDK release.

Product Identification

Existing Part #
EFR32BG12P132F1024GL125-C
EFR32BG12P132F1024GL125-CR
EFR32BG12P132F1024GM48-C
EFR32BG12P132F1024GM48-CR
EFR32BG12P232F512GM68-C
EFR32BG12P232F512GM68-CR
EFR32BG12P232F1024GL125-C
EFR32BG12P232F1024GL125-CR
EFR32BG12P232F1024GM48-C
EFR32BG12P232F1024GM48-CR
EFR32BG12P232F1024GM68-C
EFR32BG12P232F1024GM68-CR
EFR32BG12P332F1024GL125-C
EFR32BG12P332F1024GL125-CR
EFR32BG12P332F1024GM48-C
EFR32BG12P332F1024GM48-CR
EFR32BG12P332F1024IM48-C
EFR32BG12P332F1024IM48-CR
EFR32BG12P433F1024GL125-C
EFR32BG12P433F1024GL125-CR
EFR32BG12P433F1024GM48-C
EFR32BG12P433F1024GM48-CR
EFR32BG12P433F1024GM68-C
EFR32BG12P433F1024GM68-CR
EFR32BG12P432F1024GL125-C
EFR32BG12P432F1024GL125-CR
EFR32BG12P432F1024GM48-C
EFR32BG12P432F1024GM48-CR
EFR32FG12P232F1024GL125-C
EFR32FG12P232F1024GL125-CR

EFR32FG12P232F1024GM48-C
EFR32FG12P232F1024GM48-CR
EFR32FG12P231F512GM68-C
EFR32FG12P231F512GM68-CR
EFR32FG12P231F1024GL125-C
EFR32FG12P231F1024GL125-CR
EFR32FG12P231F1024GM48-C
EFR32FG12P231F1024GM48-CR
EFR32FG12P231F1024GM68-C
EFR32FG12P231F1024GM68-CR
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EFR32FG12P433F1024GM68-C
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EFR32FG12P432F1024GL125-C
EFR32FG12P432F1024GL125-CR
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EFR32FG12P432F1024GM48-CR
EFR32FG12P431F512GM68-C
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EFR32MG12P432F1024IM48-C
EFR32MG12P432F1024IM48-CR
EFR32MG12P431F1024GM68-C
EFR32MG12P431F1024GM68-CR

This change is considered a minor change which does not affect form, fit, function, quality, or reliability. The information is being provided as a customer courtesy.

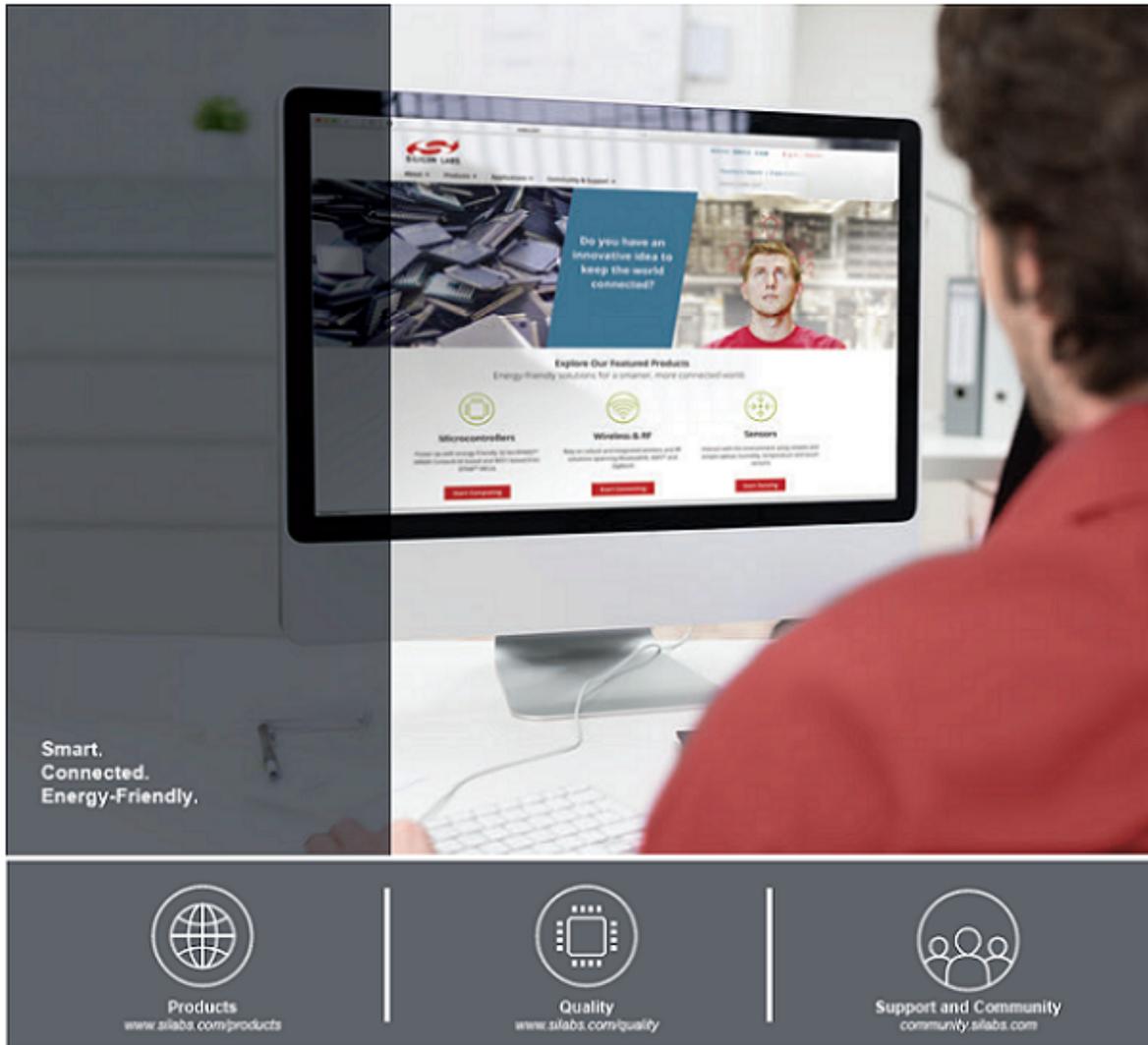
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