



# 190401508 C8051F38x, C8051F34x Datasheet Update V1.5 Prefetch Engine

**Bulletin Issue Date:** 4/1/2019

**Effective Date:** 4/1/2019

## Description of Change

Silicon labs is pleased to announce the release of version 1.5 of the C8051F38x and C8051F34x, datasheet. This update is to clarify the usage and default value of the flash prefetch engine

Updated Section "Prefetch Engine" to state that when running above 25MHz the flash memory prefetch engine needs to be enabled by setting the PFEN bit to '1', and the FLRT bit to '1'.

## Reason for Change

Clarity of use cases for flash prefetch engine.

## Product Identification

C8051F340-GQ  
C8051F340-GQR  
C8051F341-GQ  
C8051F341-GQR  
C8051F342-GM  
C8051F342-GMR  
C8051F342-GQ  
C8051F342-GQR  
C8051F343-GM  
C8051F343-GMR  
C8051F343-GQ  
C8051F343-GQR  
C8051F344-GQ  
C8051F344-GQR  
C8051F345-GQ  
C8051F345-GQR  
C8051F346-GM  
C8051F346-GMR  
C8051F346-GQ  
C8051F346-GQR  
C8051F347-GM  
C8051F347-GMR  
C8051F347-GQ  
C8051F347-GQR  
C8051F348-GQ  
C8051F348-GQR  
C8051F349-GM  
C8051F349-GMR  
C8051F349-GQ  
C8051F349-GQR  
C8051F34A-GM  
C8051F34A-GMR  
C8051F34A-GQ  
C8051F34A-GQR  
C8051F34B-GM  
C8051F34B-GMR  
C8051F34B-GQ

C8051F34B-GQR  
C8051F34C-GQ  
C8051F34C-GQR  
C8051F34D-GQ  
C8051F34D-GQR  
C8051F380-GDI  
C8051F380-GQ  
C8051F380-GQR  
C8051F381-GM  
C8051F381-GMR  
C8051F381-GQ  
C8051F381-GQR  
C8051F382-GQ  
C8051F382-GQR  
C8051F383-GM  
C8051F383-GMR  
C8051F383-GQ  
C8051F383-GQR  
C8051F384-GQ  
C8051F384-GQR  
C8051F385-GM  
C8051F385-GMR  
C8051F385-GQ  
C8051F385-GQR  
C8051F386-GQ  
C8051F386-GQR  
C8051F387-GM  
C8051F387-GMR  
C8051F387-GQ  
C8051F387-GQR  
C8051F388-B-GQ  
C8051F388-B-GQR  
C8051F389-B-GM  
C8051F389-B-GMR  
C8051F389-B-GQ  
C8051F389-B-GQR  
C8051F38A-B-GQ  
C8051F38A-B-GQR  
C8051F38B-B-GM  
C8051F38B-B-GMR  
C8051F38B-B-GQ  
C8051F38B-B-GQR  
C8051F38C-GM  
C8051F38C-GMR  
C8051F38C-GQ  
C8051F38C-GQR  
CF340-PM0445GQ  
CF340-PM0445GQR  
CF340-PM0578GQ  
CF340-PM0578GQR  
CF340-PX0417GQ  
CF340-PX0417GQR  
CF340-SM0531GQ  
CF340-SM0531GQR  
CF340-SX0471GQ  
CF340-SX0471GQR  
CF340-XM0667GQ  
CF340-XM0667GQR  
CF342P1090BGM  
CF342P1090BGM  
CF380P0997AGQ  
CF380P0997AGQR  
CF380P1023AGQ  
CF380P1023AGQR  
CF380P1103AGQ  
CF380P1103AGQR  
CF380P1104AGQ

CF380P1104AGQR  
CF380P1199AGQ  
CF380P1199AGQR  
CF380-PX0746GQ  
CF380-PX0746GQR  
CF380-SM0668GQ  
CF380-SM0668GQR  
CF380-SM0749GQ  
CF380-SM0749GQR  
CF380-SM0765GQ  
CF380-SM0765GQR  
CF381P0900AGQ  
CF381P0900AGQR  
CF383-SM0719GQ  
CF383-SM0719GQR  
CF387-PX0731GQ  
CF387-PX0731GQR  
CF388V0841BGQ  
CF388V0841BGQR  
CF388V0860BGQ  
CF388V0860BGQR

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.

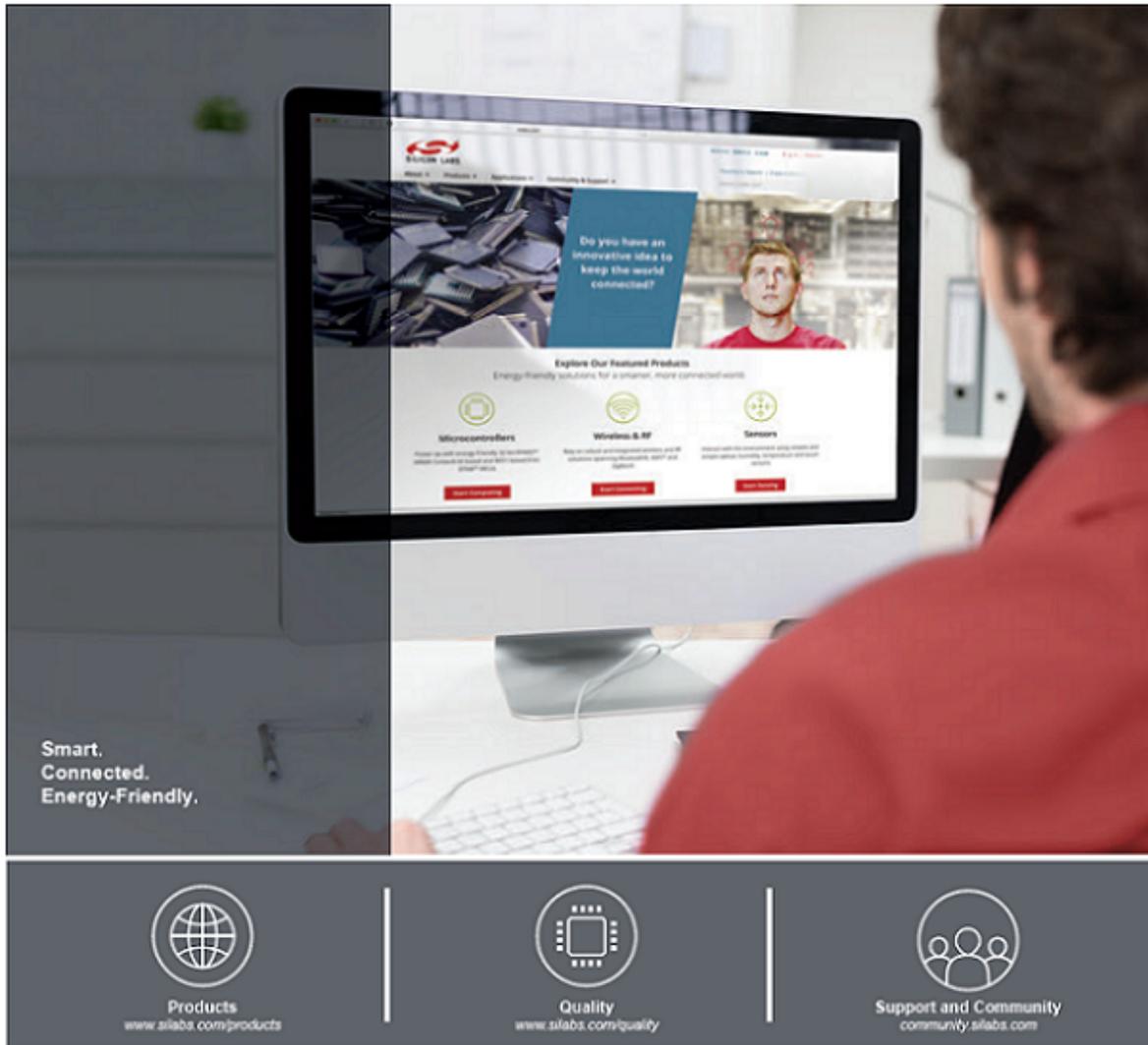
Please contact your local Silicon Labs sales representative with any questions about this notification. A list of Silicon Labs sales representatives may be found at <http://www.silabs.com>.

### **Customer Actions Needed:**

Review datasheet changes and ensure correct usage of the flash memory prefetch engine. Contact your local Silicon Labs representative with questions.

### **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>



#### 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>