

17052470 C8051F58x and C8051F59x Datasheet update bulletin

Bulletin Issue Date: 5/24/2017 Effective Date: 5/24/2017

Description of Change

Silicon Labs is pleased to announce the release of version 1.4 of the C8051F58x/F59x datasheet. These changes are considered minor and do not affect fit, form, or function.

The changes made are as follows:

- -Updated the wording in section 13 to clarify that the device has four Special Function Register pages (SFR pages).
- -Updated the procedure in Reprogramming the VDD Monitor High Threshold on page 138 to ensure a non-calibrated internal regulator output does not reset the chip. The added steps involve disabling the VDD monitor, waiting for it to stabilize, and then re-enabling it.
- -Adjusted the wording in Power-Fail Reset/VDD Monitor on page 154 to clarify the delays needed when enabling or adjusting the levels of the VDD monitor.
- -Added a spec in table 5.4 for the VDD monitor settling time.
- -Adjusted the wording in 23.3.5. SCL High (SMBus Free) Timeout, to clarify a free bus condition will occur and a START will be generated if the SMBus is waiting to generate a master START because another master sent a START on the bus without a STOP
- -Removed a redundant paragraph and fixed an incorrect equation in 23.4.1. SMBus Configuration Register.
- -Added detail to the SMBFTE bit function to explain the SMBus behavior in the SFR Definition 23.1. SNB0CF SMBUS Clock/Configuration.
- -Added Table 5.14, SMBus Peripheral Timing Performance (Master Mode) on page 54, Table 5.15, SMBus Peripheral Timing Formulas (Master Mode), on page 55, and Figure 5.2 on page 55 to Electrical Characteristics on page 42. This details the timing requirements for the SMBus peripheral in master mode like hole time, settling time, frequency, low and higher periods, and more.

Reason for Change

Release of version 1.4 of the C8051F58x/F59x datasheet

Product Identification

Existing Part # C8051F580-AM C8051F580-AMR C8051F580-A0 C8051F580-AQR C8051F580-IM C8051F580-IMR C8051F580-IQ C8051F580-IQR C8051F581-AM C8051F581-AMR C8051F581-AQ C8051F581-AQR C8051F581-IM C8051F581-IMR C8051F581-IQ C8051F581-IQR C8051F582-AM C8051F582-AMR

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C8051F584-AMR
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This change is considered a minor change which does not affect form, fit, function, quality, or reliability. The information is being provided as a cusomer courtesy.

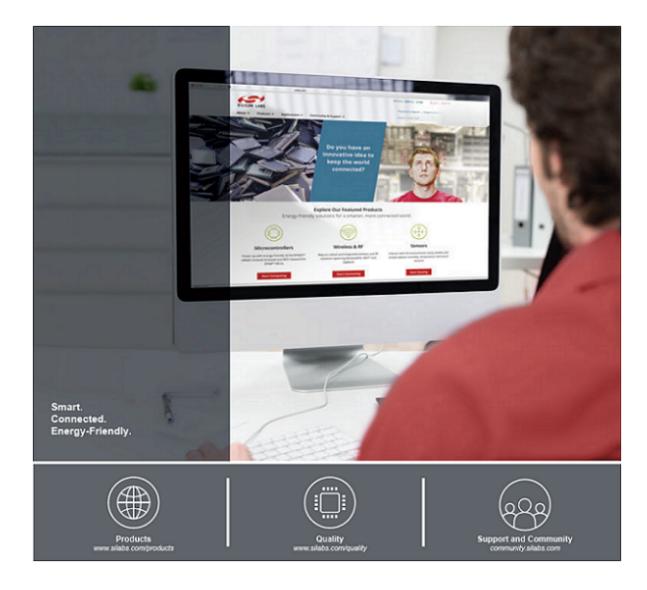
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