

170724110 EFM32G Product Revision E

PRCN Issue Date: 7/24/2017

Effective Date: 10/27/2017

PCN Type: Product Revision

Description of Change

Silicon Labs is pleased to announce product revision E of the Gecko 32-bit MCU devices. This document and description applies to the EFM32GXXX device family. The new revision includes pin-compatible replacements for the previous revision devices and results in updates to the Data Sheet, Reference Manual, and Errata.

With revision E, all Orderable Part Numbers have been consolidated into single documents, Data Sheet rev 2.10, and Errata revision 2.20.

The EFM32GXXX Reference Manual is updated to Rev 1.31.

The updated Errata added ADC E118, DAC E109, EBI E101, and PCNT E102 and it resolved EMU E107. See Errata version 2.20 for complete details.

The Data Sheet changes are summarized below (table numbers refer to EFM32G880 v1.90 datasheet):

-Added a Feature List

-Updated Ordering Codes and added Figure 2.1 - Ordering Code Decoder

-Added section 3.1.26 Liquid Crystal Display Driver (LCD) for LCD-enabled devices, due to merged Data Sheet

-Relabeled Section 2.2 as 3.2, and added separate Configuration Tables for each device (indicated by feature set)

-Split the Memory Map Figure into two separate figures with peripheral listing and core and code space listing

-Section 3.1 Test Conditions -

-Removed note about simulation characterization method

-Removed footnote about max storage temperature from Absolute Maximum section

-Table 3.5 Power Management - Clarified test conditions for existing BOD threshold rising/falling specifications, and added BOD threshold specs on falling supply for EM1 and EM2

-Table 3.7 Flash – Updated page and device erase time specifications and added footnote for more clarity

-LFRCO – Updated graphs (frequency vs temperature and voltage supply)

-Table 3.11 HFRCO – Increased typical current consumptions, IHFRCO

-Updated Figures 3.21-3.26 (HFRCO)

-Table 3.14 ADC -

-Added new input bias current (IADCBIASIN) and input offset current (IADCOFFSETIN) specifications

-Added conditions for the ADC clock frequency, fADCCLK, at two different BIASPROG settings (7 MHz and 13 MHz)

-Added new spec conditions for Signal-to-Noise Ratio, SNRADC, at various BIASPROG settings and increased some existing specs

-Added new spec conditions for Signal-to-Noise and Distortion Ratio, SINADADC, at various BIASPROG settings and increased some existing specs

-Added new spec conditions for Spurious-Free Dynamic Range, SFDRADC, at various BIASPROG settings and increased some existing specs

-Specified that the min/max Offset Voltage, VADCOFFSET, is for the differential spec instead of the single-ended spec -Updated the unit of measure for the Missing Codes specification

-Added the following new specs at each voltage reference (VREF) setting:

-Gain error drift, (GAINED)

-Offset error drift, (OFFSETED)

-Vref voltage, (VREF)

-Vref drift, VREF_VDRIFT, due to voltage drift -Vref drift, VREF_TDRIFT, due to temperature drift

-Vref current consumption, (IVREF)

-ADC and DAC Vref matching, (VREF_MATCH)

-Updated table footnotes

-Table 3.15 DAC

-Updated the test condition information for active current, IDAC, for more clarification

-Added maximum load current, ILOAD_DC

-Added the following new specs at each voltage reference setting:

-Vref voltage, (VREF)

-Vref drift, VREF_VDRIFT, due to voltage drift -Vref drift, VREF_TDRIFT, due to temperature drift

-Vref current consumption, (IVREF)

-ADC and DAC Vref matching, (VREF_MATCH)

-Updated the footnote for more clarification and to include maximum average active current

-Table 3.12 ACMP - Increased active current for one of the spec conditions

-Table 3.13 VCMP – Increased VCMP hysteresis spec

-Moved Pinout and Package section to 5.0 and included all device packages, and updated marking figures to include temperature grade

-Corrected the pin number for symbol P3 for the PCB land pattern dimensions Table for the QFN32 package -New document formatting throughout

Refer to the Data Sheet for the complete details.

Revision E introduces an updated orderable part number format with enhanced information fields. Specifically, fields specifying temperature grade and product revision are now included. See Product Identification section of this document for further details.

After the effective date of this PCN, Silicon Labs reserves the right to deliver product revision E for customers ordering product revision D.

Reason for Change

Revision to die to correct errata, improve manufacturability and continuity of supply, and updated specifications based on the results of additional silicon characterization.

Impact on Form, Fit, Function, Quality, Reliability

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

The following functions are impacted: -Updated device revision information in ROM Table (PID0 – PID3 registers) -New errata: ADC_E118, DAC_E109, EBI_E101, and PCNT_E102 -Resolved errata: EMU_E107

Product Identification

Existing Part Numbers Replacement Part Numbers Drop-in Compatibility EFM326200F16-0FN32T EFM326200F166-E-QFN32 See Data Sheet EFM326200F32-QFN32T EFM326200F326-E-QFN32R See Data Sheet EFM326200F64-QFN32T EFM326200F326-E-QFN32R See Data Sheet EFM326200F64-QFN32T EFM326200F646-E-QFN32R See Data Sheet EFM326200F64-QFN32 EFM326200F1286-E-QFN32R See Data Sheet EFM326210F128-QFN32 EFM326210F1286-E-QFN32R See Data Sheet EFM326222F128-QFP48T EFM326222F1286-E-QFP48R See Data Sheet EFM326222F32-QFP48 EFM326222F326-E-QFP48R See Data Sheet EFM326222F64-QFP48 EFM326222F326-E-QFP48R See Data Sheet EFM326222F64-QFP48 EFM326222F326-E-QFP48R See Data Sheet EFM326230F128-QFN64 EFM326230F128-C-QFN64R See Data Sheet EFM326230F128-QFN64T EFM326230F128-C-QFN64R See Data Sheet EFM326230F32-QFN64 EFM326230F128-C-QFN64R See Data Sheet EFM326230F32-QFN64 EFM326230F128-C-QFN64R See Data Sheet EFM326230F32-QFN64 EFM326230F32C-E-QFN64R See Data Sheet <th></th> <th></th> <th></th>			
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EFM32G840F128-QFN64EFM32G840F128G-E-QFN64RSeeDataSheetEFM32G840F32-QFN64TEFM32G840F32G-E-QFN64SeeDataSheetEFM32G840F64-QFN64EFM32G840F32G-E-QFN64RSeeDataSheetEFM32G840F64-QFN64TEFM32G840F64G-E-QFN64RSeeDataSheetEFM32G840F64-QFN64EFM32G840F64G-E-QFN64RSeeDataSheetEFM32G840F64-QFN64EFM32G840F64G-E-QFN64RSeeDataSheetEFM32G842F128-QFP64TEFM32G842F128G-E-QFP64SeeDataSheetEFM32G842F128-QFP64EFM32G842F128G-E-QFP64RSeeDataSheet	EFM32G800F128G-D-D1I	EFM32G800F128G-E-D1I	See Data Sheet
EFM32G840F32-QFN64TEFM32G840F32G-E-QFN64SeeDataSheetEFM32G840F32-QFN64EFM32G840F32G-E-QFN64RSeeDataSheetEFM32G840F64-QFN64TEFM32G840F64G-E-QFN64RSeeDataSheetEFM32G840F64-QFN64EFM32G840F64G-E-QFN64RSeeDataSheetEFM32G842F128-QFP64TEFM32G842F128G-E-QFP64SeeDataSheetEFM32G842F128-QFP64EFM32G842F128G-E-QFP64SeeDataSheet	EFM32G840F128-QFN64T	EFM32G840F128G-E-QFN64	See Data Sheet
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EFM32G842F128-QFP64 EFM32G842F128G-E-QFP64R See Data Sheet	EFM32G840F64-QFN64	EFM32G840F64G-E-QFN64R	See Data Sheet
	EFM32G842F128-QFP64T	EFM32G842F128G-E-QFP64	See Data Sheet
EFM32G842F32-QFP64T EFM32G842F32G-E-QFP64 See Data Sheet	EFM32G842F128-QFP64	EFM32G842F128G-E-QFP64R	See Data Sheet
	EFM32G842F32-QFP64T	EFM32G842F32G-E-QFP64	See Data Sheet

EFM32G842F32-QFP64	EFM32G842F32G-E-QFP64R	See	Data	Sheet	
EFM32G842F64-QFP64T	EFM32G842F64G-E-QFP64	See	Data	Sheet	
EFM32G842F64-QFP64	EFM32G842F64G-E-QFP64R	See	Data	Sheet	
EFM32G880F128-QFP100T	EFM32G880F128G-E-QFP100	See	Data	Sheet	
EFM32G880F128-QFP100	EFM32G880F128G-E-QFP100R	See	Data	Sheet	
EFM32G880F32-QFP100T	EFM32G880F32G-E-QFP100	See	Data	Sheet	
EFM32G880F32-QFP100	EFM32G880F32G-E-QFP100R	See	Data	Sheet	
EFM32G880F64-QFP100T	EFM32G880F64G-E-QFP100	See	Data	Sheet	
EFM32G880F64-QFP100	EFM32G880F64G-E-QFP100R	See	Data	Sheet	
EFM32G890F128-BGA112T	EFM32G890F128G-E-BGA112	See	Data	Sheet	
EFM32G890F128-BGA112	EFM32G890F128G-E-BGA112R	See	Data	Sheet	
EFM32G890F32-BGA112T	EFM32G890F32G-E-BGA112	See	Data	Sheet	
EFM32G890F32-BGA112	EFM32G890F32G-E-BGA112R	See	Data	Sheet	
EFM32G890F64-BGA112T	EFM32G890F64G-E-BGA112	See	Data	Sheet	
EFM32G890F64-BGA112	EFM32G890F64G-E-BGA112R	See	Data	Sheet	

Last Date of Unchanged Product: 10/27/2017

Qualification Samples

Samples are available upon request

Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at http://www.silabs.com.

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Qualification Data

See attached Qualification Report in Appendix

EFM32G Rev E Qualification Report

W7101F1 - Product Qualification Report Record Rev. I

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	SMC Fabrication		Lot ID or	Fail/Pass or			
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
	ccelerated Environment Stres		FP-14x14 -	ASECL			
HAST	JA110		Q034611		1		
	130°C, 85%RH	3 lots, N=>25	Q034908	0/28	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q034557		1	0/82	
uHAST	JA118		Q038617		1		
	130°C, 85%RH	3 lots, N=>25	Q038618	0/30	1	3 lots	Pass
	96 hours		Q040574		1	0/90	
Temp Cycle	JA104		Q038619	0/30	1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q038620	0/30	1	3 lots	Pass
	500 cycles		Q040573		1	0/90	
HTSL	JA103		Q034614		1		
	150°C, 1000hr	3 lots, N=>25	Q034995		1	3 lots	Pass
		0.000,000,000	Q034560		1	0/90	
Test Group A – A	ccelerated Environment Stres	s Tests - 112-LF					
HAST	JA110		Q040327		1		
	130°C, 85%RH	3 lots, N=>25	Q040328	0/30	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q040575		1	0/90	
uHAST	JA118		Q040331		1		
	130°C, 85%RH	3 lots, N=>25	Q040332		1	3 lots	Pass
	96 hours		Q040572	0/30	1	0/90	
Temp Cycle	JA104		Q040329		1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q040330	I 1	1	3 lots	Pass
	500 cycles		Q040570		1	0/90	
HTSL	JA103		Q040333		1		
	150°C, 1000hr	3 lots, N=>25	Q040334		1	3 lots	Pass
		01010,110 20	Q040571	0/30	1	0/90	1 000
Test Group A – A	ccelerated Environment Stres	s Tests - 64-TQF			ASEKR		
HAST	JA110		Q038044		1		
	130°C, 85%RH	3 lots, N=>25	Q038047	0/30	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q038045	0/30	1	0/90	
uHAST	JA118		Q038046		1		
	130°C, 85%RH	3 lots, N=>25	Q038049	0/30	1		
	96 hours		Q038048		1		
			Q040600		1	5 lots	Pass
			Q041162		1	0/146	
Temp Cycle	JA104		Q038052		1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q038050		1	4 lots	Pass
	500 cycles		Q038051		1		
	our offices		Q041161	0/26	1	0/116	
			2041101	V/2V		WHIV	

Approved by: Vincent Hidajat

1 of 3

Prepared on: 19-May-17

EFM32G Rev E Qualification Report

W7101F1 - Product Qualification Report Record Rev. I

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			Lot ID or	Fail/Pass or			
Fest Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
ITSL	JA103		Q038054	0/30	1		
	150°C, 1000hr	3 lots, N=>25	Q038055	0/30	1	3 lots	Pass
			Q038053	0/30	1	0/90	
	celerated Environment Stress	s Tests - 64-VQF	N-9x9/32-V	/QFN-6x6 - AS	SEKR		
HAST	JA110		Q040441	0/30	1		
	130°C, 85%RH	3 lots, N=>25	Q040442	0/30	1	3 lots	Pass
	Vcc=3.6V, 96 hours		Q040443	0/30	1	0/90	
uHAST	JA118		Q040447	0/30	1		
	130°C, 85%RH	3 lots, N=>25	Q040448	0/30	1	3 lots	Pass
	96 hours		Q040449	0/30	1	0/90	
Temp Cycle	JA104		Q040444	0/30	1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q040445	0/30	1	4 lots	Pass
	500 cycles		Q040446	0/30	1	0/120	
			Q041268	0/30	1		
HTSL	JA103		Q038213	0/30	1		
	150°C, 1000hr	3 lots, N=>25	Q038214	0/30	1	3 lots	Pass
			Q038215	0/30	1	0/90	
Test Group B – Ac	celerated Lifetime Simulation	Tests					
HTOL	JA108		Q040476	0/80			
	T _J ≥ 125°C, Dynamic	3 lots, N=>77	Q040536	0/80		3 lots	Pass
	Vcc=3.6V, 1000 hours		Q040537	0/80		0/240	
LTOL	JA108						
	T _A = -10°C, Dynamic	1 lot, N=>32	Q034510	0/40		1 lots	Pass
	Vcc=3.6V, 1000 hours					0/40	
ELFR	JA108		Q040408	0/503			
	T _J ≥ 125°C, Dynamic	3 lots, N=>500	Q040315	0/503		3 lots	Pass
	Vcc=3.6V, 48 hours		Q040535	0/503		0/1509	
Data Retention	AEC-Q100-005		Q037807	0/40			
High Temp	150°C, 1000 hours	3 lots, N=> 39	Q038151	0/40		3 lots	Pass
			Q038112	0/40		0/120	
Data Retention	AEC-Q100-005		Q037754	0/40			
Low Temp	25°C, 1000 hours	3 lots, N=> 38	Q038152	0/40		3 lots	Pass
			Q038150	0/40		0/120	
NVM P/E Cycling	AEC-Q100-005		Q037702	0/40			
High Temp	85°C, 24 hours	3 lots, N=> 77	Q038086	0/40		3 lots	Pass
			Q038119	0/40		0/120	
NVM P/E Cycling	AEC-Q100-005		Q038120	0/40			
Low Temp	25°C, 24 hours	3 lots, N=> 77	Q038113	0/40		3 lots	Pass
		,	Q037703	0/40		0/120	

Approved by: Vincent Hidajat

2 of 3

Prepared on: 19-May-17

EFM32G Rev E Qualification Report

W7101F1 - Product Qualification Report Record Rev. I

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Lot ID or Fail/Pass or							
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
Test Group E –	Electrical Verification						
ESD-HBM	JS-001						
		1 lot, N=>3	Q040266			2000 V	Class 1C
ESD-CDM	JS-002		Q040267		3	500 V	Class C2A
		1 lot, N=>3	Q040632		4	500 V	Class C2A
			Q040477		5	750 V	Class C2B
			Q041189		6	750 V	Class C2B
			Q038043		7	750 V	Class C2B
			Q041091		8	750 V	Class C2B
Latch Up	JESD78						
	±200mA	1 lot, N=>3	Q040265	25 °C	2		Pass
	Overvoltage = 3.8V		Q040264	85 °C	2		

Notes:

1. Parts are Pre-conditioned at MSL3/260°C

2. All pins passed ±200mA except pin PA12 / PA13

3. 112-LFBGA-10x10 - ASEKR

4. 100-LQFP-14x14 - ASECL

5. 64-VQFN-9x9 - ASEKR

6. 32-VQFN-6x6 - ASEKR

7. 64-TQFP-10x10 - ASEKR 8. 48-TQFP-7x7 - ASEKR

0. 40-TQFP-7X7 - ASEKR

This report applies to the following part numbers:

	his report applies to the following part number	ла.
EFM32G280F32G-E-QFP100	EFM32G230F32G-E-QFN64	EFM32G290F32G-E-BGA112
EFM32G280F64G-E-QFP100	EFM32G230F64G-E-QFN64	EFM32G290F64G-E-BGA112
EFM32G280F128G-E-QFP100	EFM32G230F128G-E-QFN64	EFM32G290F128G-E-BGA112
EFM32G880F32G-E-QFP100	EFM32G840F32G-E-QFN64	EFM32G890F32G-E-BGA112
EFM32G880F64G-E-QFP100	EFM32G840F64G-E-QFN64	EFM32G890F64G-E-BGA112
EFM32G880F128G-E-QFP100	EFM32G840F128G-E-QFN64	EFM32G890F128G-E-BGA112
EFM32G230F32G-E-QFN64	EFM32G200F16G-E-QFN32	EFM32G222F32G-E-QFP48
EFM32G230F64G-E-QFN64	EFM32G200F32G-E-QFN32	EFM32G222F64G-E-QFP48
EFM32G230F128G-E-QFN64	EFM32G200F64G-E-QFN32	EFM32G222F128G-E-QFP48
EFM32G232F32G-E-QFP64	EFM32G210F128G-E-QFN32	
EFM32G232F64G-E-QFP64		
EFM32G232F128G-E-QFP64		

Approved by: Vincent Hidajat

3 of 3

Prepared on: 19-May-17



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