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Bulletin Date: 3/16/2015Bulletin Effective Date: 3/16/2015										
Title: EFM32ZG Datasheet Revisio	on Notif	ication								
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Bulletin Details										
Description: Silicon Labs is pleased to announce that version 1.10 of the EFM32ZG (Zero Gecko family) datasheets and version 1.10 of the EFM32ZG reference manual are now available. The affected datasheets are: EFM32ZG108, EFM32ZG110, EFM32ZG210, EFM32ZG222. The affected reference manual is: EFM32ZG- RM.										
The datasheet revision includes a n accurately reflect the performance of this document.										
 In addition, new min/max data has been added and other minor updates have been made as follows: Updated ADC data, updated temperature sensor graph and added clarification on conditions for INL_{ADC} and DNL_{ADC} parameters. Updated Max ESR_{HFXO} value for Crystal Frequency of 24 MHz. Updated current consumption. Updated LFXO and HFXO data. Updated LFRCO and HFRCO data. Updated ACMP data. Updated VCMP data. Updated Memory Map. Added DMA current in Digital Peripherals section. Added AUXHFRCO to block diagram and Electrical Characteristics. 										
See Table 1 at the end of this document for additional details. The reference manual has also been changed in order to provide additional clarity and correct minor errors. Please refer to the Revision History section of the reference manual for additional details.										
Dessent										
Reason: Updated specifications based on th physical or software changes to the			cterization. There are no							
Product Identification:										
Affected Part Numbers	Affec	ted Part Numbers								
EFM32ZG108F4-QFN24	EFMS	32ZG108F4-QFN24T								

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EFM32ZG108F8-QFN24

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	EFM32ZG108F16-QFN24	EFM32ZG108F16-QFN24T
	EFM32ZG108F32-QFN24	EFM32ZG108F32-QFN24T
	EFM32ZG110F4-QFN24	EFM32ZG110F4-QFN24T
	EFM32ZG110F8-QFN24	EFM32ZG110F8-QFN24T
Ī	EFM32ZG110F16-QFN24	EFM32ZG110F16-QFN24T
ſ	EFM32ZG110F32-QFN24	EFM32ZG110F32-QFN24T
	EFM32ZG210F4-QFN32	EFM32ZG210F4-QFN32T
	EFM32ZG210F8-QFN32	EFM32ZG210F8-QFN32T
	EFM32ZG210F16-QFN32	EFM32ZG210F16-QFN32T
	EFM32ZG210F32-QFN32	EFM32ZG210F32-QFN32T
	EFM32ZG222F4-QFP48	EFM32ZG222F4-QFP48T
	EFM32ZG222F8-QFP48	EFM32ZG222F8-QFP48T
	EFM32ZG222F16-QFP48	EFM32ZG222F16-QFP48T
	EFM32ZG222F32-QFP48	EFM32ZG222F32-QFP48T
	EFM32ZG210M0909F32G-A	EFM32ZG210M0909F32G-AR

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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Customer Actions Needed: None.

Table 1

Table 1: EFM32	able 1: EFM32ZGxxx Datasheet Rev 1.10 - Summary of Key Changes			Data	asheet Rev	1.00	Datasheet Rev 1.10			
Table*	Symbol	Parameter	Condition	Min	Тур	Max	Min	Тур	Max	Unit
	I _{EMO}		24 MHz		115			115	132	μA/MH
			21 MHz		114			114	128	μA/MH:
		EM0 Current	14 MHz		117			117	131	μA/MH
		T _{AMB} = 25 °C	11 MHz		118			118	133	μA/MH
			6.6 MHz		124			124	139	μA/MH
			1.2 MHz		155			155	177	μA/MHz
			24 MHz		48			48	57	μA/MHz
	I		21 MHz		48			48	52	μA/MHz
2.2.6		EM1 Current	14 MHz		50			50	54	μA/MHz
3.3 Current		T _{AMB} = 25 °C	11 MHz		52			52	56	μA/MHz
Consumption			6.6 MHz		57			57	63	μA/MHz
			1.2 MHz		89			89	99	μA/MHz
	I _{EM2}	EM2 Current	T _{AMB} = 25 °C		0.9			0.9	1.25	μA
			T _{AMB} = 85 °C		1.7			1.7	2.35	μA
	EIVIS	EM3 Current	T _{AMB} = 25 °C		0.5			0.5	0.9	μA
			T _{AMB} = 85 °C		1.3			1.3	2.0	μA
		EM4 Current	T _{AMB} = 25 °C		0.02			0.02	0.035	μA
			T _{AMB} = 85 °C		0.29			0.29	0.700	μA
3.8 LFXO	t _{LFXO}	Start-up time			400			1100		ms
3.9 HFXO	t _{HFXO}	Start-up time			400			785		μs
	SNR _{ADC}	Signal-to-Noise Ratio	200 ksps, 12 bit, differential, V _{DD} ref		69		63	66		dB
3.14 ADC		Signal-to-Noise-and-								
	SINAD _{ADC}	Distortion Ratio	200 ksps, 12 bit, differential, V _{DD} ref		68		62	66		dB

 * Note: Table numbers may vary by datasheet. Numbers listed refer to EFM32ZG222.

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