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Bulletin Date: 7/3/2014		Bulletin Effective Date: 7/3/2014	
Title: EFM32ZG Datasheet Revision Notification			
Originator: Ted Batey		Phone: 512-532-5279	Dept: Marketing
Customer Contact: Kathy Haggar		Phone: 512-532-5261	Dept: Sales
Bulletin Details			
Description:			
<p>Silicon Labs is pleased to announce that version 1.00 of the EFM32ZG (Zero Gecko family) datasheets and version 1.00 of the EFM32ZG reference manual are now available. The affected datasheets are: EFM32ZG108, EFM32ZG110, EFM32ZG210, EFM32ZG222. The affected reference manual is: EFM32ZG-RM.</p> <p>The revision includes a number of key changes to existing <i>Min/Max/Typ</i> values that more accurately reflect the performance of the part. These changes are summarized in Table 1 at the end of this document. In addition, Table 3.11 HFRCO has a new Footnote 1, ensuring frequency bands above 7MHz will always have some overlap across supply voltage and temperature.</p> <p>In addition, new min/max data has been added and other minor updates have been made as follows:</p> <ul style="list-style-type: none"> • Updated Current Consumption information • Updated Power Management information • Updated GPIO information • Updated LFXO information • Updated HFXO information • Updated HFRCO information • Updated ULFRCO information • Updated IDAC information • Updated ACMP information <p>See Table 1 at the end of this document for additional details.</p> <p>The reference manual has also been changed to reflect the updated operating voltage range and current consumption information.</p>			
Reason:			
Updated specifications based on the results of additional silicon characterization. There are no physical or software changes to the devices.			

Product Identification:

Affected Part Numbers
EFM32ZG108F4-QFN24
EFM32ZG108F8-QFN24
EFM32ZG108F16-QFN24
EFM32ZG108F32-QFN24
EFM32ZG110F4-QFN24
EFM32ZG110F8-QFN24
EFM32ZG110F16-QFN24
EFM32ZG110F32-QFN24

Affected Part Numbers
EFM32ZG210F4-QFN32
EFM32ZG210F8-QFN32
EFM32ZG210F16-QFN32
EFM32ZG210F32-QFN32
EFM32ZG222F4-QFP48
EFM32ZG222F8-QFP48
EFM32ZG222F16-QFP48
EFM32ZG222F32-QFP48

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. Please see your Silicon Labs sales representatives if you have questions. A list of Silicon Labs sales representatives is available at www.silabs.com

Table 1: EFM32ZGxxx Datasheet Rev 1.00 - Summary of Key Changes

Table*	Symbol	Parameter	Condition	Datasheet Rev 0.61			Datasheet Rev 1.00			Unit
				Min	Typ	Max	Min	Typ	Max	
3.2 General Operating Conditions	V _{DDOP}	Operating Supply Voltage		1.85		3.8	1.98		3.8	V
3.5 Power Management	V _{BODextthr}	BOD threshold, falling external supply		1.82		1.85	1.74		1.96	V
3.6 Flash	V _{FLASH}	Flash erase/write supply voltage		1.8		3.8	1.98		3.8	V
3.7 GPIO	V _{IOOH}	Output high voltage	Sourcing 6 mA, V _{DD} = 1.98V	0.75V _{DD}			0.75V _{DD}			V
			Sourcing 6 mA, V _{DD} = 3.0V	0.95V _{DD}			0.85V _{DD}			V
			Sourcing 20 mA, V _{DD} = 1.98V	0.7V _{DD}			0.6V _{DD}			V
			Sourcing 20 mA, V _{DD} = 3.0V	0.9V _{DD}			0.8V _{DD}			V
	V _{IOOL}	Output low voltage	Sinking 6 mA, V _{DD} = 1.98V			0.25V _{DD}			0.3V _{DD}	V
			Sinking 6 mA, V _{DD} = 3.0V			0.05V _{DD}			0.2V _{DD}	V
			Sinking 20 mA, V _{DD} = 1.98V			0.3V _{DD}			0.35V _{DD}	V
		Sinking 20 mA, V _{DD} = 3.0V			0.1V _{DD}			0.25V _{DD}	V	
	I _{IOLEAK}	Input leakage current				±25		±0.1	±100	nA
3.12 ULFRCO	f _{ULFRCO}	Oscillation frequency		0.8		1.5	0.7		1.75	kHz
3.23 ACMP	V _{ACMPOFFSET}	Offset voltage			10			0		mV

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