



## Customer Information Notification

201803038I

**Issue Date:** 11-Apr-2018  
**Effective Date:** 18-Apr-2018

Here's your personalized quality information concerning products Digi-Key purchased from NXP. For detailed information we invite you to view this notification online



# QUALITY

### Management Summary

NXP Semiconductor announces changes to the datasheet and reference manual for the Kinetis® KW41Z, KW31Z and KW21Z wireless microcontrollers.

#### Change Category

<input type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Location	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Process	<input type="checkbox"/> Errata
<input type="checkbox"/> Wafer Fab Location	<input type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Equipment	<input checked="" type="checkbox"/> Electrical spec./Test coverage

**MKW41Z/31Z/21Z  
Datasheet and Reference  
Manual Updates**

### Information Notification

The Kinetis® KW41Z/31Z/21Z datasheet has been updated with the following updates:

- Added Zigbee 3.0 in supported standards
- Updated Flash memory protection features
- Updated Table 12 Voltage and current operating behaviors footnotes
- Corrected Table 21 typos
- Updated Table 26 Reference crystal specifications verbiage
- Updated Temperature sensor slope information (Table 33 16-bit ADC characteristics)
- Updated DCDC converter operating requirements and specifications
- Added DCDC pin voltage operating range to Table 52. Voltage and current operating ratings

The datasheet can be found here: <https://www.nxp.com/docs/en/data-sheet/MKW41Z512.pdf>.

The Kinetis® KW41Z/31Z/21Z reference manual has been updated with the following changes:

Added Flashloader chapter  
Updated Figure 3-9. Boost Power Tree  
Added Flash Access Control Introduction chapter  
Updated section 3.6.1.5 Erase All Flash Contents  
Updated Flash Mass Erase in Progress description in Table 9-3. MDM-AP Control register assignments  
Updated Flash Mass Erase Acknowledge description in Table 9-4. MDM-AP Status register assignments  
Updated PSWITCH information in section 14.4 Functional description  
Updated DCDC\_VDD1P5CTRL\_TRG\_BOOST bit field description in section 14.7.5 DCDC register 3 (DCDC\_REG3) to match datasheet updates  
Updated DCDC\_VDD1P8CTRL\_TRG bit field description in section 14.7.5 DCDC register 3 (DCDC\_REG3) to match datasheet updates

The reference manual can be found here: <https://www.nxp.com/docs/en/reference-manual/MKW41Z512RM.pdf>

#### **Why do we issue this Information Notification**

This notification informs customers of changes to Kinetis® KW41Z, KW31Z and KW21Z wireless microcontrollers reference manual and datasheet.

#### **Identification of Affected Products**

Product identification does not change

#### **Impact**

There is no change to product form, fit, function, or reliability.

#### **Data Sheet Revision**

A new datasheet will be issued

#### **Contact and Support**

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

**Name** Ryan Kelly  
**Position** Product Marketer  
**e-mail address** ryan.kelly@nxp.com

At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

Customer Focus, Passion to Win.

NXP Quality Management Team.

#### **About NXP Semiconductors**

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Name	Status	Product Line
MKW21Z512VHT4	935313293557	MKW21Z512VHT4	32-bit MCU, 512KB FLASH	VQFN63R	RFS	BL Microcontrollers
MKW41Z512VHT4	935320635557	MKW41Z512VHT4	KW40 512	VQFN63R	RFS	BL Microcontrollers
MKW41Z256VHT4	935313259557	MKW41Z256VHT4	BLE+802.15.4+All modes	VQFN63R	RFS	BL Microcontrollers
MKW31Z512VHT4	935323702557	MKW31Z512VHT4	KW40 512	VQFN63R	RFS	BL Microcontrollers
MKW21Z256VHT4	935313188557	MKW21Z256VHT4	802.15.4 Only	VQFN63R	RFS	BL Microcontrollers
MKW31Z256VHT4	935318528557	MKW31Z256VHT4	BLE Only	VQFN63R	RFS	BL Microcontrollers