Final Product Change Notification | 201705014F01

Issue Date: 01-Jun-2017
Effective Date: 30-Aug-2017

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QUALITY

Management Summary

Kinetis K10/20/60/61/70 Family 120MHz and 150MHz maskset update from 4N96B to 5N96B for DDR and PMC design fix.

Change Category

[ ] Wafer Fab Process	[ ] Assembly Process	[ ] Product Marking	[ ] Test Location	[X] Design
[ ] Wafer Fab Materials	[ ] Assembly Materials	[ ] Mechanical Specification	[ ]Test Process	[X] Errata
[ ] Wafer Fab Location	[ ] Assembly Location	[ ] Packing/Shipping/Labeling	[ ] Test Equipment	[ ] Electrical spec./Test coverage

Kinetis K10/20/60/61/70 Family 120MHz and 150MHz Maskset Update for Design Fix

Details of this Change

NXP Semiconductors is announcing a new version of silicon for the Kinetis K10/20/60/61/70 Family 120MHz and 150MHz product line. The new silicon mask revision will be 5N96B.

Below errata were fixed in 5N96B.
ERR009296: DDR: differential clock cross point voltage and clock pulse width specs not met by all devices
ERR010521: DDR: In rare cases, one DDR byte lane can stop working correctly
ERR009697: PMC: Possible power on resets when VDDINT and VDD are not at the same voltage

Updated errata document for 5N96B will be released in below site:
http://www.nxp.com/cn/products/microcontrollers-and-processors/arm-processors/kinetis-cortex-m-mcus/k-series-performance-m4/k7x-graphic-lcd/kinetis-k70-120150-mhz-high-speed-usb-ethernet-ddr-and-anti-tamper-mcus-based-on-arm-cortex-m4:K70_120?&tab=Documentation_Tab

Why do we Implement this Change
The release of Kinetis K10/20/60/61/70 Family 120MHz and 150MHz new maskset 5N96B addresses errata associated with the DDR and PMC design fix.
Identification of Affected Products
Top side marking
The maskset information in the marking will be changed from 4N96B to 5N96B

Product Availability

Sample Information
Samples availability differs by product - see attached sample plan
We have sample available as below list for MAPBGA256/LQFP144/EWLB package:
PK61FN1M0VMJ12
PK20FX512VLQ12
PCK61FN1MGUCK12

Production
Planned first shipment 15-Oct-2017

Impact

There is no change to form, fit, function or reliability.
Data Sheet Revision
No impact to existing datasheet
Disposition of Old Products
Existing inventory will be shipped until depleted

Timing and Logistics

Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 01-Jul-2017.

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   Yue Su
Position   Product Engineer
e-mail address   yue.su@nxp.com
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Customer Focus, Passion to Win.

NXP Quality Management Team.

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Name	Status	Product Line
MK10FN1M0VLQ12	935317613557	MK10FN1M0VLQ12	Kinetis Base 1MB	LQFP144	RFS	BL Microcontrollers
MK61FX512VMD12	935324536557	MK61FX512VMD12	Kinetis 512K with DryIce	LBGA144	RFS	BL Microcontrollers
MK60FN1M0VMD15	935321722557	MK60FN1M0VMD15	Kinetis 1MB Ethnet USB	LBGA144	RFS	BL Microcontrollers
MK60FN1M0VLQ12	935318272557	MK60FN1M0VLQ12	Kinetis 1MB Ethnet USB	LQFP144	RFS	BL Microcontrollers
MK20FN1M0VLQ12	935321743557	MK20FN1M0VLQ12	Kinetis 1MB USB	LQFP144	RFS	BL Microcontrollers
MK70FN1M0VMJ15	935323155557	MK70FN1M0VMJ15	Kinetis 256MAPBGA	LBGA256	RFS	BL Microcontrollers
MK10FX512VMD12	935324537557	MK10FX512VMD12	Kinetis 512K Flex	LBGA144	RFS	BL Microcontrollers
MK60FX512VMD12	935325653557	MK60FX512VMD12	Kinetis 512K Ethnet USB	LBGA144	RFS	BL Microcontrollers
MK61FN1M0VMJ15	935325658557	MK61FN1M0VMJ15	Kinetis 1M Ethnet USB	LBGA256	RFS	BL Microcontrollers
MK60FX512VLQ15	935317611557	MK60FX512VLQ15	Kinetis 512K Ethnet USB	LQFP144	RFS	BL Microcontrollers
MK60FX512VLQ12	935317615557	MK60FX512VLQ12	Kinetis 512K Ethnet USB	LQFP144	RFS	BL Microcontrollers
MK60FN1M0VMD12	935317625557	MK60FN1M0VMD12	Kinetis 1MB Ethnet USB	LBGA144	RFS	BL Microcontrollers
MK70FN1M0VMJ12	935319892557	MK70FN1M0VMJ12	Kinetis 256MAPBGA	LBGA256	RFS	BL Microcontrollers
MK10FX512VLQ12	935321736557	MK10FX512VLQ12	Kinetis Base 1MB	LQFP144	RFS	BL Microcontrollers
MK61FX512VMJ15	935325667557	MK61FX512VMJ15	Kinetis 512K Ethnet USB	LBGA256	RFS	BL Microcontrollers
MK61FX512VMJ12	935310998557	MK61FX512VMJ12	Kinetis 512K Ethnet USB	LBGA256	RFS	BL Microcontrollers
MK20FX512VLQ12	935317626557	MK20FX512VLQ12	Kinetis 512K USB	LQFP144	RFS	BL Microcontrollers
MK70FX512VMJ15	935317627557	MK70FX512VMJ15	Kinetis 512K Ethnet LCD	LBGA256	RFS	BL Microcontrollers
MK20FX512VMD12	935323275557	MK20FX512VMD12	Kinetis 512K USB	LBGA144	RFS	BL Microcontrollers
MK61FN1M0VMJ12	935324539557	MK61FN1M0VMJ12	Kinetis 1M Ethnet USB	LBGA256	RFS	BL Microcontrollers
MK20FN1M0VMD12	935314737557	MK20FN1M0VMD12	Kinetis 1MB USB	LBGA144	RFS	BL Microcontrollers
MK10FN1M0VMD12	935319894557	MK10FN1M0VMD12	Kinetis Base 1MB	LBGA144	RFS	BL Microcontrollers
MK60FX512VMD15	935321727557	MK60FX512VMD15	Kinetis 512K Ethnet USB	LBGA144	RFS	BL Microcontrollers
MK60FN1M0VLQ15	935323254557	MK60FN1M0VLQ15	Kinetis 1MB Ethnet USB	LQFP144	RFS	BL Microcontrollers
MK70FX512VMJ12	935321719557	MK70FX512VMJ12	Kinetis 512K Ethnet LCD	LBGA256	RFS	BL Microcontrollers