



## Customer Information Notification

201802025I

**Issue Date:** 23-Jun-2018  
**Effective Date:** 24-Jun-2018

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# QUALITY

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| <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                                    |
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| <input type="checkbox"/> Firmware            | <input type="checkbox"/> Other              |  |   |  |

Kinetis K10, K20, K60, K61, and K70 120MHz and 150MHz Datasheet Update

### Description

NXP Semiconductors announces that the datasheet for Kinetis K10, K20, K60, K61, and K70 family devices that operate at 120MHz or 150Mhz have been updated from rev 6 to rev 7.

Changes in the new revision:

- De-rated the SDHC SD/SDIO full speed/high speed mode max frequency to 25/40 MHz. This new frequency allows for the output valid specification (which is unchanged) to meet the SD card's input setup time requirement.
- Increased the SDHC MMC full speed/high speed mode max frequency to 25/50 MHz.
- For K60, K61, and K70 family devices supporting ethernet functionality, MDIO/MDC timing specifications have been added.

The updated documents (rev7) can be found at:

K10 datasheet:

<https://www.nxp.com/docs/en/data-sheet/K10P144M120SF3.pdf>

K20 datasheet:

<https://www.nxp.com/docs/en/data-sheet/K20P144M120SF3.pdf>

K60 datasheets:

<https://www.nxp.com/docs/en/data-sheet/K60P144M120SF3.pdf>

<https://www.nxp.com/docs/en/data-sheet/K60P144M150SF3.pdf>

K61 datasheets:

<https://www.nxp.com/docs/en/data-sheet/K61P144M120SF3.pdf>

<https://www.nxp.com/docs/en/data-sheet/K61P144M150SF3.pdf>

<https://www.nxp.com/docs/en/data-sheet/K61P256M120SF3.pdf>

<https://www.nxp.com/docs/en/data-sheet/K61P256M150SF3.pdf>

<https://www.nxp.com/docs/en/data-sheet/K61P143M120SF3.pdf>

K70 datasheets:

<https://www.nxp.com/docs/en/data-sheet/K70P256M120SF3.pdf>

<https://www.nxp.com/docs/en/data-sheet/K70P256M150SF3.pdf>

#### **Reason**

The datasheets for Kinetis K10, K20, K60, K61, and K70 family devices that operate at 120MHz or 150MHz have been updated. The new revision is rev 7.

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

Product identification does not change

#### **Anticipated Impact on Form, Fit, Function, Reliability or Quality**

There is no change to 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:

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NXP Quality Management Team.

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
MK60FN1M0VMD12	935317625557	MK60FN1M0VMD12	Kinetis 1MB Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK61FN1M0VMJ15	935325658557	MK61FN1M0VMJ15	Kinetis 1M Ethnet USB	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK61FN1M0VMD15	935323276557	MK61FN1M0VMD15	Kinetis 1MB Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK61FX512VMD12	935324536557	MK61FX512VMD12	Kinetis 512K with Drylce	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK61FN1M0VMD12	935324538557	MK61FN1M0VMD12	Kinetis 1MB Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK70FX512VMJ12	935321719557	MK70FX512VMJ12	Kinetis 512K Ethnet LCD	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK20FX512VMD12	935323275557	MK20FX512VMD12	Kinetis 512K USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK70FX512VMJ15	935317627557	MK70FX512VMJ15	Kinetis 512K Ethnet LCD	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK60FX512VMD12	935325653557	MK60FX512VMD12	Kinetis 512K Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK61FX512VMJ15	935325667557	MK61FX512VMJ15	Kinetis 512K Ethnet USB	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK20FN1M0VMD12	935314737557	MK20FN1M0VMD12	Kinetis 1MB USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK60FX512VLQ15	935317611557	MK60FX512VLQ15	Kinetis 512K Ethnet USB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK60FX512VLQ12	935317615557	MK60FX512VLQ12	Kinetis 512K Ethnet USB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK60FN1M0VMD12R	935317625518	MK60FN1M0VMD12R	Kinetis 1MB Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK10FN1M0VMD12	935319894557	MK10FN1M0VMD12	Kinetis Base 1MB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK10FX512VLQ12	935321736557	MK10FX512VLQ12	Kinetis Base 1MB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK60FN1M0VLQ15	935323254557	MK60FN1M0VLQ15	Kinetis 1MB Ethnet USB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK10FX512VMD12	935324537557	MK10FX512VMD12	Kinetis 512K Flex	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK60FX512VMD15	935321727557	MK60FX512VMD15	Kinetis 512K Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers
MK20FN1M0VLQ12	935321743557	MK20FN1M0VLQ12	Kinetis 1MB USB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK70FN1M0VMJ15	935323155557	MK70FN1M0VMJ15	Kinetis 256MAPBGA	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK61FX512VMJ12	935310998557	MK61FX512VMJ12	Kinetis 512K Ethnet USB	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK10FN1M0VLQ12	935317613557	MK10FN1M0VLQ12	Kinetis Base 1MB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK20FX512VLQ12	935317626557	MK20FX512VLQ12	Kinetis 512K USB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK60FN1M0VLQ12	935318272557	MK60FN1M0VLQ12	Kinetis 1MB Ethnet USB	SOT486-2	LQFP144	RFS	BL Microcontrollers
MK70FN1M0VMJ12	935319892557	MK70FN1M0VMJ12	Kinetis 256MAPBGA	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK61FN1M0VMJ12	935324539557	MK61FN1M0VMJ12	Kinetis 1M Ethnet USB	SOT740-3	LBGA256	RFS	BL Microcontrollers
MK60FN1M0VMD15	935321722557	MK60FN1M0VMD15	Kinetis 1MB Ethnet USB	SOT1535-1	LBGA144	RFS	BL Microcontrollers