Customer Information Notification

2023090007I : Datasheet update for K10DN32xxx-128xxx5, K10DX32xxx-128xxx5

Note: This notice is NXP Company Proprietary.

Issue Date: Nov 04, 2023 **Effective date:Nov 05, 2023**

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Management summary

Datasheet for MK10DN32VLH5, MK10DX32VLH5, MK10DN64VLH5, MK10DX64VLH5, MK10DN128VLH5, MK10DX128VLH5, MK10DN32VMP5, MK10DX32VMP5, MK10DN64VMP5, MK10DX64VMP5, MK10DN128VMP5, and MK10DX128VMP5 have been updated to rev 5.

Change Category

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

PCN Overview
Description

NXP Semiconductors announces that the datasheet for MK10DN32VLH5, MK10DX32VLH5, MK10DN64VLH5, MK10DX64VLH5, MK10DN128VLH5, MK10DX128VLH5, MK10DN32VMP5, MK10DX32VMP5, MK10DN64VMP5, MK10DX64VMP5, MK10DN128VMP5, and MK10DX128VMP5 have been updated. The new revision is rev 5.

Changes in the new revision:

• Added Human-machine interface in "Key features".
• Added new values for the Field "FFF" and "CC" in "Fields"
• Updated "Example" in "Defintion:Operating requirement" and "Definition:Operating behavior".
• Added a footnote in "ESD handling ratings.
• For "LVD and POR operating requiremnts" removed the sign +- from Typ. values of VHYSH and VHYSL and updated the footnote.
• Added a bullet in "Power mode transition operating behaviors".
• Updated "JTAG electricals".
• Updated table 16-bit ADC operating conditions" and footnote 6.
• Added a footnote below table "16-bit ADC characteristics..".

• Updated Min. Max value for Temperature in table "VREF full-range operating requirements".

The updated documents can be found at:
https://www.nxp.com/docs/en/data-sheet/K10P64M50SF0.pdf
Reason
The datasheet for MK10DN32VLH5, MK10DX32VLH5, MK10DN64VLH5, MK10DX64VLH5, MK10DN128VLH5, MK10DX128VLH5, MK10DN32VMP5, MK10DX32VMP5, MK10DN64VMP5, MK10DX64VMP5, MK10DN128VMP5, and MK10DX128VMP5 have been updated. The new revision is rev 5.

- Updated maximum ADC frequencies at different modes in 16-bit ADC operating conditions and footnote
- Updated JTAG electricals - Limit and full
- Removed +/- sign from LVD and POR operating requirements in TYP
- Updated Min Max value for Temperature in table "VREF full-range operating requirements"
- Added a footnote in "ESD handling ratings"

The updated documents can be found at:
https://www.nxp.com/docs/en/data-sheet/K10P64M50SF0.pdf
Identification of Affected Products
Product identification does not change

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

No Impact on form, fit, function, reliability or quality
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	NXP Technical support
e-mail address	tech.support@nxp.com

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NXP Quality Management Team.
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Orderable Part Number#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
MK10DN32VLH5	935325662557	MK10DN32VLH5	Kinetis 32K	(L)QFP64	SOT1699-1	RFS	No	BLM1
MK10DX32VLH5	935317634557	MK10DX32VLH5	Kinetis 32K Flex	(L)QFP64	SOT1699-1	RFS	No	BLM1
MK10DN64VLH5	935321741557	MK10DN64VLH5	Kinetis 64K	(L)QFP64	SOT1699-1	RFS	No	BLM1
MK10DX64VLH5	935324527557	MK10DX64VLH5	Kinetis 64K Flex	(L)QFP64	SOT1699-1	RFS	No	BLM1
MK10DN128VLH5R	935321733528	MK10DN128VLH5R	Kinetis 128K	(L)QFP64	SOT1699-1	RFS	No	BLM1
MK10DN128VLH5	935321733557	MK10DN128VLH5	Kinetis 128K	(L)QFP64	SOT1699-1	RFS	No	BLM1
PK10DX128VLH5	935319795699	PK10DX128VLH5	Kinetis 128K	(L)QFP64	SOT1699-1	ASM	No	BLM1
MK10DX128VLH5	935319796557	MK10DX128VLH5	Kinetis 128K	(L)QFP64	SOT1699-1	RFS	No	BLM1
MK10DN32VMP5	935319901557	MK10DN32VMP5	Kinetis 32K	(L)FBGA64M	SOT1555-1	RFS	No	BLM1
MK10DX32VMP5	935314734557	MK10DX32VMP5	Kinetis 32K Flex	(L)FBGA64M	SOT1555-1	RFS	No	BLM1
MK10DN64VMP5	935311037557	MK10DN64VMP5	Kinetis 64K	(L)FBGA64M	SOT1555-1	RFS	No	BLM1
MK10DX64VMP5	935317635557	MK10DX64VMP5	Kinetis 64K Flex	(L)FBGA64M	SOT1555-1	RFS	No	BLM1
MK10DN128VMP5	935311036557	MK10DN128VMP5	Kinetis 128K	(L)FBGA64M	SOT1555-1	RFS	No	BLM1
MK10DX128VMP5	935325657557	MK10DX128VMP5	Kinetis 128K Flex	(L)FBGA64M	SOT1555-1	RFS	No	BLM1