Customer Information Notification

202310007I : Datasheet Update for K12Dx128VLK5, K12DX256VLK5, and K12DN512VLK5

Note: This notice is NXP Company Proprietary.

Issue Date: Nov 19, 2023 **Effective date:Nov 20, 2023**

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Management summary

Datasheet for MK12DX128VLK5, MK12DX256VLK5, and MK12DN512VLK5 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			

PCN Overview

Description

NXP Semiconductors announces that the datasheet for MK12DX128VLK5, MK12DX256VLK5, and MK12DN512VLK5 have been updated. The new revision is rev 5.

Changes in the new revision:

• Changed Freescale to NXP
• Updated CC values in section 2.3 Fields
• Updated Max value for VDIO, VAIO and VDDA in 4.4 Voltage and current operating ratings
• Added footnotes in Table 11 Thermal operating requirements
• Updated ADC frequencies at different modes in Table 24. 16-bit ADC operating conditions and footnotes
• Updated footnote in Table 27 12-bit DAC operating requirements

The updated documents can be found at:
https://www.nxp.com/docs/en/data-sheet/K12P80M50SF4.pdf

Reason

The datasheet for MK12DX128VLK5, MK12DX256VLK5, and MK12DN512VLK5 have been updated. The new revision is rev 5.

Updated ADC frequencies at different modes in Table 24. 16-bit ADC operating conditions, updated footnote in Table 27 12-bit DAC operating requirements, and updated max value for VDIO, VAIO and VDDA in 4.4 Voltage and current operating ratings.

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

Additional information

Additional documents: view online

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
MK12DX128VLK5	935321789557	MK12DX128VLK5	ARM+128Kb	(L)QFP80	SOT315-2	RFS	No	BLM1
MK12DX256VLK5	935314825557	MK12DX256VLK5	ARM+256Kb	(L)QFP80	SOT315-2	RFS	No	BLM1
MK12DN512VLK5R	935319978528	MK12DN512VLK5R	ARM+512Kb	(L)QFP80	SOT315-2	RFS	No	BLM1
MK12DN512VLK5	935319978557	MK12DN512VLK5	ARM+512Kb	(L)QFP80	SOT315-2	RFS	No	BLM1