



Customer Information Notification

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Issue Date: 13-Mar-2020
Effective Date: 14-Mar-2020

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QUALITY

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 type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input checked="" type="checkbox"/> Other - Data Sheet and Reference Manual Update | | | |

S32K1xx Data Sheet Update To Rev 12 And Reference Manual Update to Rev 12.1

Description

NXP Semiconductors announces data sheet and reference manual update for the S32K1xx from revision 11 to revision 12 and revision 12.1 respectively. The revision history included in the updated document provides a details description of the changes.

Data sheet changes:

- Page 1: Added note: Technical information for S32K142W and S32K144W device families is preliminary until these devices achieve qualification.....
- Entire document: Added S32K14xW information throughout.
- Page 6: Removed "Under development" from the footnote number 6 in Figure 3.
- Page 80: Updated Trace electrical specifications to clarify that the section applies only for ETM Trace and is supported only by S32K148.
- Page 39: In Table 28, added a new footnote from fosc_hi Max entry.
- Page 71: Updated Figure 21 for number 8.
- Page 49: In Reliability specifications, tnmretee is changed to tnmretee100, and added a new row for the parameter tnmretee10. And footnotes are updated in this topic.

For reference manual changes, please refer to Appendix B, release notes for revision 12.1.

The S32K1xx data sheet and reference manual revision 12 is attached to this notification and can be found at:

https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/s32k-automotive-mcus/s32k-scalable-microcontrollers-for-automotive-general-purpose-and-and-high-reliability-industrial:S32K?tab=Documentation_Tab

Corresponding ZVEI Delta Qualification Matrix ID: SEM-DS-02

Reason

The data sheet and reference manual have been updated to provide additional technical clarification.

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:

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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
FS32K144HFTOVLLR	935347124528	FS32K144HFTOVLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K148HATOMLLT	935394696557	FS32K148HATOMLLT	S32K148 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K144HATOMLHT	935347676557	FS32K144HATOMLHT	S32K144 32-bit MCU, ARM	SOT1699-1	QFP64	RFS	General Purp & Int Solutions
FS32K144HRTOVMMHR	935363046518	FS32K144HRTOVMMHT	S32K144, 100 MAPBGA	SOT1569-1	LBGA100	RFS	General Purp & Int Solutions
FS32K146HATOMLHT	935369868557	FS32K146HATOMLHT	S32K146 32-bit MCU, ARM	SOT1699-1	QFP64	RFS	General Purp & Int Solutions
FS32K144HFTOVLLT	935347124557	FS32K144HFTOVLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K146HATOMLLT	935369869557	FS32K146HATOMLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K146HATOMMHT	935374768557	FS32K146HATOMMHT	Cortex M4F, 1MB, 100MAPB	SOT1569-1	LBGA100	RFS	General Purp & Int Solutions
FS32K116LATOMLFT	935376052557	FS32K116LATOMLFT	S32K116 32-bit MCU, ARM	SOT313-3	LQFP48	RFS	General Purp & Int Solutions
FS32K144MFTOCLLT	935358205557	FS32K144MFTOCLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K148UJTOVLQT	935360135557	FS32K148UJTOVLQT	S32K148 144 LQFP	SOT486-2	LQFP144	RFS	General Purp & Int Solutions
FS32K146HATOMLQT	935369871557	FS32K146HATOMLQT	S32K146 144 LQFP	SOT486-2	LQFP144	RFS	General Purp & Int Solutions
FS32K118LATOMLFT	935377169557	FS32K118LATOMLFT	S32K118, 48LQFP	SOT313-3	LQFP48	RFS	General Purp & Int Solutions
FS32K142UATOVLF	935385015557	FS32K142UATOVLF	S32K142 48 LQFP	SOT313-3	LQFP48	RFS	General Purp & Int Solutions
FS32K148UJTOVLUT	935360136557	FS32K148UJTOVLUT	S32K148 176 LQFP	SOT506-2	LQFP176	RFS	General Purp & Int Solutions
FS32K144HATOMMHT	935372804557	FS32K144HATOMMHT	S32K144, 100 MAPBGA	SOT1569-1	LBGA100	RFS	General Purp & Int Solutions
FS32K144UATOVLF	935384671557	FS32K144UATOVLF	S32K144 48 LQFP	SOT313-3	LQFP48	RFS	General Purp & Int Solutions
FS32K142HATOMLHT	935362249557	FS32K142HATOMLHT	S32K142 32-bit MCU, ARM	SOT1699-1	QFP64	RFS	General Purp & Int Solutions
FS32K148UJTOVLLT	935384668557	FS32K148UJTOVLLT	S32K148 100 LQFP	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K144HATOMLFT	935384669557	FS32K144HATOMLFT	S32K144 48 LQFP	SOT313-3	LQFP48	RFS	General Purp & Int Solutions
FS32K142HATOMLLT	935362251557	FS32K142HATOMLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K144HATOMLLT	935363649557	FS32K144HATOMLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K144UITOVLHT	935383537557	FS32K144UITOVLHT	Cortex M4F, 512K Flash	SOT1699-1	QFP64	RFS	General Purp & Int Solutions
FS32K142HATOMLFT	935385014557	FS32K142HATOMLFT	S32K142 48 LQFP	SOT313-3	LQFP48	RFS	General Purp & Int Solutions
FS32K118LATOMLHT	935377172557	FS32K118LATOMLHT	S32K118, 64 LQFP	SOT1699-1	QFP64	RFS	General Purp & Int Solutions
FS32K144ULTOVLLT	935385998557	FS32K144ULTOVLLT	512K Flash, 112MHz, CAN	SOT407-3	LQFP100	RFS	General Purp & Int Solutions
FS32K148UJTOVMHT	935361067557	FS32K148UJTOVMHT	S32K148 100 MAPBGA	SOT1569-1	LBGA100	RFS	General Purp & Int Solutions
FS32K116LATOMFMT	935378709557	FS32K116LATOMFMT	S32K116, MO+, Flash 128K	SOT617-3	HVQFN32	RFS	General Purp & Int Solutions
FS32K144MNTOCLLT	935347644557	FS32K144MNTOCLLT	S32K144 32-bit MCU, ARM	SOT407-3	LQFP100	RFS	General Purp & Int Solutions