



## Customer Information Notification

2022110281 : S32K312 (P09C) Standard Devices sBAF/ Firmware/ Crypto Driver Update

**Note:** This notice is NXP Company Proprietary.

**Issue Date:** Dec 19, 2022 **Effective date:** Dec 20, 2022

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For detailed information we invite you to view this notification online

### Change Category

- |  |   |  |   |   |
|--|---|--|---|---|
| <input type="checkbox"/> Wafer Fab Process   | <input type="checkbox"/> Assembly Process   | <input type="checkbox"/> Product Marking           | <input type="checkbox"/> Test Process   | <input type="checkbox"/> Design                         |
| <input type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification  | <input type="checkbox"/> Test Equipment | <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 Location  | <input type="checkbox"/> Electrical spec./Test coverage |
| <input checked="" type="checkbox"/> Firmware | <input type="checkbox"/> Other              |  |   |   |

## PCN Overview

### Description

NXP Semiconductors announces the sBAF update from 00 0D 00 00 00 08 00 00 to 00 0D 00 00 00 09 00 01 for the S32K312 (P09C) products listed in this notification.  
sBAF devices can be distinguished by date code marking. The sBAF update will be effective starting date code 2244.

Due to the sBAF update, the HSE\_B firmware (FW) must be updated from 00 0D 00 00 01 02 00 01 to 00 0D 00 00 02 06 00 00.

The corresponding S32K312 Standard Devices Crypto driver will be released with S32K3 Real-Time Drivers Version 2.0.2 to support sBAF and Firmware update.

The updated document titled "HSE\_B Firmware Reference Manual" is located at:  
<https://www.nxp.com/products/processors-and-microcontrollers/s32-automotive-platform/s32k-general-purpose-mcus/s32k3-microcontrollers-for-general-purpose:S32K3>  
Under "Secure Files" section.

Note: To access Secure Files, secure access rights are required. First time registration steps can be found at: <https://www.nxp.com/docs/en/user-guide/nxp-secure-access-rights-registration.pdf>

Corresponding ZVEI Delta Qualification Matrix ID: SEM-DE-04.

### Reason

Improved authentication scheme over IVT, AppBL and recovery images.  
Faster boot time by discarding the XRDC configuration.

## Identification of Affected Products

Product identification does not change

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

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No Impact on form, fit, function, reliability or quality

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

Existing inventory will be shipped until depleted

The sBAF update will be effective starting date code 2244.

## Additional information

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Additional documents: [view online](#)

## Contact and Support

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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#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
S32K312NHTOMPASR	935438784528	S32K312NHTOMPASR	S32K312, CES, 100 MaxQFP	maxQFP100	SOT2045-1	ASM	No	BLAG
S32K312NHTOMPAST	935438784557	S32K312NHTOMPAST	S32K312, CES, 100 MaxQFP	maxQFP100	SOT2045-1	ASM	No	BLAG
S32K312NHTOMPAIT	935447342557	S32K312NHTOMPAIT	S32K312, ISELED, 100 Max	maxQFP100	SOT2045-1	ASM	No	BLAG
S32K312NHTOMPAIR	935447342528	S32K312NHTOMPAIR	S32K312, ISELED, 100 Max	maxQFP100	SOT2045-1	ASM	No	BLAG
S32K312NHTOVPAST	935434715557	S32K312NHTOVPAST	S32K312, CES, 100 MaxQFP	maxQFP100	SOT2045-1	ASM	No	BLAG
S32K312NHTOVPASR	935434715528	S32K312NHTOVPASR	S32K312, CES, 100 MaxQFP	maxQFP100	SOT2045-1	ASM	No	BLAG
S32K312NHTOVPBST	935434716557	S32K312NHTOVPBST	S32K312, CES, 172 MaxQFP	maxQFP172	SOT1940-1	RFS	No	BLAG
S32K312NHTOVBSR	935434716528	S32K312NHTOVBSR	S32K312, CES, 172 MaxQFP	maxQFP172	SOT1940-1	RFS	No	BLAG
S32K312NHTOMPBST	935436148557	S32K312NHTOMPBST	S32K312, 2MB Flash, Sing	maxQFP172	SOT1940-1	RFS	No	BLAG