



Customer Information Notification

202311019I : S32K3xx sBAF Update for All Security Solutions

Note: This notice is NXP Company Proprietary.

Issue Date: Dec 21, 2023 **Effective date:** Dec 22, 2023

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For detailed information we invite you to view this notification online

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 ☐ Other				

PCN Overview

Description

NXP Semiconductors announces the unified sBAF update to version 0.15.0 for the S32K344 (inclusive of S32K314, S32K324) mask set 1P55A, S32K312 mask set 0P09C, S32K342 (inclusive of S32K322, S32K341) mask set 0P97C, and S32K311 (inclusive of S32K310) mask set 0P98C products listed in this notification.

All material with January 2024 datecode (2401) and beyond will have new sBAF version 0.15.0.

There is no customer impact between old and new sBAF and FW versions as cross compatibility is maintained.

NXP recommends customers to update to new sBAF and FW versions for latest security updates.

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 Delta Qualification Matrix: SEM-DE-04

Reason

Unified sBAF for all security solutions and improved ECC error handling during HSE key storage/update procedure.

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

No impact to existing datasheet

Disposition of Old Products

Existing inventory will be shipped until depleted

There is no customer impact between old and new SBAF and FW versions as cross compatibility is maintained.

NXP recommends customers to update to new SBAF and FW versions for latest security updates.

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	Alina Cui
Position	Product Engineer
e-mail address	lina.cui@nxp.com

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NXP Quality Management Team.

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NXP Semiconductors
High Tech Campus, 5656 AG Eindhoven, The Netherlands

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Orderable Part Number#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
S32K310NHTOMLFST	935453282557	S32K310NHTOMLFST	S32K310, CES, 48 LQFP	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K310NHTOMPAST	935453281557	S32K310NHTOMPAST	S32K310, 512KB Flash, AR	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K310NHTOVLF5R	935462054528	S32K310NHTOVLF5R	S32K310, 512KB flash,120	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K310NHTOVLFST	935462054557	S32K310NHTOVLFST	S32K310, 512KB flash,120	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K310NHTOVPPASR	935450737528	S32K310NHTOVPPASR	S32K310, 512KB Flash, AR	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K310NHTOVPPAST	935450737557	S32K310NHTOVPPAST	S32K310, 512KB Flash, AR	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NHTOMLF5R	935442928528	S32K311NHTOMLF5R	S32K311, CES, 48 LQFP	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K311NHTOMLFST	935442928557	S32K311NHTOMLFST	S32K311, CES, 48 LQFP	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K311NHTOMPAIR	935447336528	S32K311NHTOMPAIR	S32K311,ISELED,100 MaxQF	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NHTOMPAIT	935447336528	S32K311NHTOMPAIT	S32K311,ISELED,100 MaxQF	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NHTOMPASR	935442929528	S32K311NHTOMPASR	S32K311, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NHTOMPAST	935442929557	S32K311NHTOMPAST	S32K311, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NHTOVLF5R	935450154528	S32K311NHTOVLF5R	S32K311, CES, 48 LQFP	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K311NHTOVLFST	935450154557	S32K311NHTOVLFST	S32K311, CES, 48 LQFP	(L)QFP48	SOT313-3	RFS	No	BLAG
S32K311NHTOVPPASR	935444555528	S32K311NHTOVPPASR	S32K311, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NHTOVPPAST	935444555557	S32K311NHTOVPPAST	S32K311, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NVT0VPASR	935449405528	S32K311NVT0VPASR	S32K311, 1MB flash, 128k	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K311NVT0VPAST	935449405557	S32K311NVT0VPAST	S32K311, 1MB flash, 128k	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NGTOMPAST	935444502557	S32K312NGTOMPAST	S32K312, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NGTOMPBST	935436147528	S32K312NGTOMPBST	S32K312, 2MB Flash, Sing	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K312NGT0VPASR	935450873528	S32K312NGT0VPASR	S32K312, 2MB flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NGT0VPAST	935450873557	S32K312NGT0VPAST	S32K312, 2MB flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NGT0VPBSR	935435962528	S32K312NGT0VPBSR	S32K312, 2MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K312NGT0VPBST	935435962557	S32K312NGT0VPBST	S32K312, 2MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K312NHTOMPAIR	935447342528	S32K312NHTOMPAIR	S32K312, ISELED, 100 Max	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NHTOMPAIT	935447342557	S32K312NHTOMPAIT	S32K312, ISELED, 100 Max	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NHTOMPASR	935438784528	S32K312NHTOMPASR	S32K312, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NHTOMPAST	935438784557	S32K312NHTOMPAST	S32K312, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NHTOMPBST	935436148557	S32K312NHTOMPBST	S32K312, 2MB Flash, Sing	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K312NHT0VPASR	935434715528	S32K312NHT0VPASR	S32K312, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NHT0VPAST	935434715557	S32K312NHT0VPAST	S32K312, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NHT0VPBSR	935434716528	S32K312NHT0VPBSR	S32K312, CES, 172 MaxQFP	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K312NHT0VPBST	935434716557	S32K312NHT0VPBST	S32K312, CES, 172 MaxQFP	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K312NVTOMPAST	935444503557	S32K312NVTOMPAST	S32K312, CES, 100 MaxQFP	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K312NVTOMPBST	935436149557	S32K312NVTOMPBST	S32K312, 2MB Flash, Sing	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314EHT1MMMSR	935432209518	S32K314EHT1MMMSR	S32K344 Phantom, 257MAPB	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K314EHT1MMMST	935432209557	S32K314EHT1MMMST	S32K344 Phantom, 257MAPB	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K314EHT1MPB5T	935438572557	S32K314EHT1MPB5T	Single core M7, 160MHz,	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314EHT1VMM5T	935430858557	S32K314EHT1VMM5T	S32K314, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K314EHT1VPB5T	935430492557	S32K314EHT1VPB5T	S32K314, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314NGT1VPBSR	935435964528	S32K314NGT1VPBSR	Single Core M7, 160MHz,	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314NGT1VPBST	935435964557	S32K314NGT1VPBST	Single Core M7, 160MHz,	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314NHT1MMMST	935432211557	S32K314NHT1MMMST	S32K344 Phantom, 257MAPB	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K314NHT1MPB5R	935432213528	S32K314NHT1MPB5R	S32K344 Phantom, 172 Max	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314NHT1MPB5T	935432213557	S32K314NHT1MPB5T	S32K344 Phantom, 172 Max	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314NHT1VMM5T	935430859557	S32K314NHT1VMM5T	S32K314, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K314NHT1VPB5R	935430493528	S32K314NHT1VPB5R	S32K314, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K314NHT1VPBST	935430493557	S32K314NHT1VPBST	S32K314, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322EHT0MPAIR	935447339528	S32K322EHT0MPAIR	S32K322, 2MB flash, ISELED	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322EHT0MPAIT	935447339557	S32K322EHT0MPAIT	S32K322, 2MB flash, ISELED	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322EHT0MPAST	935442943557	S32K322EHT0MPAST	S32K322, 2MB flash, 256K	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322EHT0MPBIR	935447346528	S32K322EHT0MPBIR	32K322, 2MB Flash, DualC	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322EHT0MPBIT	935447346557	S32K322EHT0MPBIT	32K322, 2MB Flash, DualC	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322EHT0MPB5T	935437513557	S32K322EHT0MPB5T	32K322, 2MB Flash, DualC	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322EHT0VPBSR	935440403928	S32K322EHT0VPBSR	S32K342, 2MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322EHT0VPBST	935440403957	S32K322EHT0VPBST	S32K342, 2MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322NHTOMPASR	935452374528	S32K322NHTOMPASR	S32K322, 2MB flash, 256k	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322NHTOMPAST	935452374557	S32K322NHTOMPAST	S32K322, 2MB flash, 256k	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322NHTOMPBS5T	935440658557	S32K322NHTOMPBS5T	2MB flash, 256KB RAM, AS	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322NHT0VPASR	935449492528	S32K322NHT0VPASR	S32K342, 2MB flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322NHT0VPAST	935449492557	S32K322NHT0VPAST	S32K342, 2MB flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K322NHT0VPBSR	935440132528	S32K322NHT0VPBSR	2MB flash, 256KB RAM, AS	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K322NHT0VPBST	935440132557	S32K322NHT0VPBST	2MB flash, 256KB RAM, AS	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324EHT1MMMSR	935438573518	S32K324EHT1MMMSR	Dual core M7, 160MHz, 4M	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324EHT1MMMST	935438573557	S32K324EHT1MMMST	Dual core M7, 160MHz, 4M	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324EHT1MPBIT	935437558557	S32K324EHT1MPBIT	S32K324, 4MB Flash, Dual	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324EHT1MPB5R	935437129528	S32K324EHT1MPB5R	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324EHT1MPBST	935437129557	S32K324EHT1MPBST	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324EHT1VMM5R	935430862518	S32K324EHT1VMM5R	S32K324, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324EHT1VMM5T	935430862557	S32K324EHT1VMM5T	S32K324, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324EHT1VPB5T	935434684557	S32K324EHT1VPB5T	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NGT1MPB5R	935460114528	S32K324NGT1MPB5R	S32K324, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NGT1MPBST	935460114557	S32K324NGT1MPBST	S32K324, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NHT1MMMSR	935434706518	S32K324NHT1MMMSR	S32K324, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324NHT1MMMST	935434706557	S32K324NHT1MMMST	S32K324, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324NHT1MPBIR	935439766528	S32K324NHT1MPBIR	Dual core M7, 160MHz, 4M	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NHT1MPBIT	935439766557	S32K324NHT1MPBIT	Dual core M7, 160MHz, 4M	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NHT1MPB5T	935430494557	S32K324NHT1MPB5T	S32K324, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NHT1VMM5R	935430863518	S32K324NHT1VMM5R	S32K324, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324NHT1VMM5T	935430863557	S32K324NHT1VMM5T	S32K324, 4MB flash, ARM	(L)FBGA257M	SOT1547-3	RFS	No	BLAG
S32K324NHT1VPBSR	935430495528	S32K324NHT1VPBSR	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K324NHT1VPBST	935430495557	S32K324NHT1VPBST	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K341EHT0MPAST	935442927557	S32K341EHT0MPAST	S32K341, 1MB Flash, Lock	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K341EHT0MPBST	935437411557	S32K341EHT0MPBST	S32K341, 1MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K341NHTOMPASR	935438223528	S32K341NHTOMPASR	S32K341, 1MB flash, 256K	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K341NHTOMPAST	935438223557	S32K341NHTOMPAST	S32K341, 1MB flash, 256K	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K341NHT0VPASR	935438512528	S32K341NHT0VPASR	S32K341, 1MB flash, 256K	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K341NHT0VPAST	935438512557	S32K341NHT0VPAST	S32K341, 1MB flash, 256K	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K341NHT0VPBST	935448087557	S32K341NHT0VPBST	S32K341, 1MB flash, 256K	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K341NHT1VPBST	935439423528	S32K341NHT1VPBST	S32K341, 1MB flash, 256K	HDQFP172	SOT1940-1	WIT	No	BLAG
S32K342EGT0MPBST	935436144557	S32K342EGT0MPBST	S32K342, 2MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K342EHT0MPAST	935442944557	S32K342EHT0MPAST	S32K342, 2MB flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K342EHT0MPBST	935436145557	S32K342EHT0MPBST	S32K342, 2MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG

S32K342EVT0MPBST	935436146557	S32K342EVT0MPBST	S32K342, 2MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K342NHT0MPAST	935449131557	S32K342NHT0MPAST	S32K342, 2MB Flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K342NHT0MPBST	935439833557	S32K342NHT0MPBST	S32K342, 2MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K342NHT0VPASR	935449132528	S32K342NHT0VPASR	S32K342, 2MB Flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K342NHT0VPAST	935449132557	S32K342NHT0VPAST	S32K342, 2MB Flash, ARM	HDQFP100	SOT2045-1	RFS	No	BLAG
S32K342NHT0VPBSR	935448088528	S32K342NHT0VPBSR	S32K342, 2MB flash, 256K	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K342NHT0VPBST	935448088557	S32K342NHT0VPBST	S32K342, 2MB flash, 256K	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K342NHT1VPBST	935439422557	S32K342NHT1VPBST	S32K342, 2MB flash, 256K	HDQFP172	SOT1940-1	WIT	No	BLAG
S32K344EGT1MPBST	935436142557	S32K344EGT1MPBST	S32K344, 4MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K344EHT1MMMST	935438574557	S32K344EHT1MMMST	Lockstep core M7, 160MHz	(LJFBGA257M	SOT1547-3	RFS	No	BLAG
S32K344EHT1MPBST	935434685557	S32K344EHT1MPBST	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K344EHT1VMMST	935430864557	S32K344EHT1VMMST	S32K344,257MAP,Prod B/D	(LJFBGA257M	SOT1547-3	RFS	No	BLAG
S32K344EHT1VPBSR	935430496528	S32K344EHT1VPBSR	4MB flash, ARM M7 Lockst	HDQFP172	SOT1940-1	ASM	No	BLAG
S32K344EHT1VPBST	935430496557	S32K344EHT1VPBST	4MB flash, ARM M7 Lockst	HDQFP172	SOT1940-1	ASM	No	BLAG
S32K344EVT1MPBST	935436143557	S32K344EVT1MPBST	S32K344, 4MB Flash, Lock	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K344NHT1MMMST	935430865557	S32K344NHT1MMMST	S32K344, 4MB flash, ARM	(LJFBGA257M	SOT1547-3	RFS	No	BLAG
S32K344NHT1MPBSR	935430497528	S32K344NHT1MPBSR	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K344NHT1MPBST	935430497557	S32K344NHT1MPBST	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG
S32K344NHT1VMMST	935430866557	S32K344NHT1VMMST	S32K344, 4MB flash, ARM	(LJFBGA257M	SOT1547-3	RFS	No	BLAG
S32K344NHT1VPBST	935430498557	S32K344NHT1VPBST	S32K344, 4MB flash, ARM	HDQFP172	SOT1940-1	RFS	No	BLAG