



Customer Information Notification

2023060111 : MC9S12ZVC Reference Manual Update from Rev2.3 to Rev2.4

Note: This notice is NXP Company Proprietary.

Issue Date: Jun 28, 2023 **Effective date:** Jun 29, 2023

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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: Reference Manual Update

PCN Overview

Description

NXP Semiconductors announces a Reference Manual update for the MC9S12ZVC from Rev 2.3 to Rev 2.4.

The revision history (Appendix) included in the updated document provides a detailed description of the changes.

The MC9S12ZVC Reference Manual is attached with this notification and can be found at:
<https://www.nxp.com/products/processors-and-microcontrollers/additional-mpu-mcus-architectures/s12-magniv-mixed-signal-mcus/s12zvc-mixed-signal-mcu-for-automotive-and-industrial-can-applications:S12ZVC>

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

Reason

The Reference Manual has 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

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 Tech Support
Position	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
S912ZVC12F0MKH	935322402557	S912ZVC12F0MKH	S122,64LQFP-EP,128K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC12F0MKHR	935322402528	S912ZVC12F0MKHR	S122,64LQFP-EP,128K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC12F0MLF	935312538557	S912ZVC12F0MLF	S122, 48LQFP, 128K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC12F0MLFR	935312538528	S912ZVC12F0MLFR	S122, 48LQFP, 128K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC12F0VKH	935320591557	S912ZVC12F0VKH	S122,64LQFP-EP,128K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC12F0VKHR	935320591528	S912ZVC12F0VKHR	S122,64LQFP-EP,128K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC12F0VLF	935320618557	S912ZVC12F0VLF	S122,48LQFP,128K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC12F0VLF	935320618528	S912ZVC12F0VLF	S122,48LQFP,128K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19F0MKH	935315208557	S912ZVC19F0MKH	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
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S912ZVC19F0MLF	935318326557	S912ZVC19F0MLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19F0MLFR	935318326528	S912ZVC19F0MLFR	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19F0VKH	935312621557	S912ZVC19F0VKH	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
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S912ZVC64F0CLF	935333108557	S912ZVC64F0CLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC64F0CLFR	935333108528	S912ZVC64F0CLFR	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC64F0MLF	935316231557	S912ZVC64F0MLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC64F0MLFR	935316231528	S912ZVC64F0MLFR	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC64F0VLF	935324979557	S912ZVC64F0VLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC64F0VLF	935324979528	S912ZVC64F0VLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC96F0CLF	935377439557	S912ZVC96F0CLF	S122, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC96F0MLF	935312973557	S912ZVC96F0MLF	S122, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC96F0MLFR	935312973528	S912ZVC96F0MLFR	S122, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVCA19F0MLF	935313132557	S912ZVCA19F0MLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19F0MLFR	935313132528	S912ZVCA19F0MLFR	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19F0VLF	935322502557	S912ZVCA19F0VLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVCA19F0VKH	935312421557	S912ZVCA19F0VKH	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVCA19F1WLF	935399606557	S912ZVCA19F1WLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19F1WLF	935399606528	S912ZVCA19F1WLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVCA64F0CLFR	935333111528	S912ZVCA64F0CLFR	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA64F0MLF	935325024557	S912ZVCA64F0MLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA64F0MLFR	935325024528	S912ZVCA64F0MLFR	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA64F0VLF	935375244557	S912ZVCA64F0VLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA64F0VLF	935375244528	S912ZVCA64F0VLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA64F0WKH	935323896557	S912ZVCA64F0WKH	S122,64LQFP-EP,64K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVCA96F0MLF	935316267557	S912ZVCA96F0MLF	S122,48LQFP,96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA96F0MLFR	935316267528	S912ZVCA96F0MLFR	S122,48LQFP,96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA96F0VLF	935316465557	S912ZVCA96F0VLF	S122,48LQFP,96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC12AVKHR	935426676528	S912ZVC12AVKHR	S122,64LQFP-EP,128K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC12AVLFR	935439935528	S912ZVC12AVLFR	S122,48LQFP,128K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC12F1MLFR	935422804528	S912ZVC12F1MLFR	S122,48LQFP,128K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19A1WKH	935436019557	S912ZVC19A1WKH	S122,64 LQFP-EP,192K FL	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC19A1WKHR	935436019528	S912ZVC19A1WKHR	S122,64 LQFP-EP,192K FL	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC19A1WLF	935440581528	S912ZVC19A1WLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19AMKH	935426664557	S912ZVC19AMKH	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC19AMKHR	935426664528	S912ZVC19AMKHR	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC19AMLF	935432524528	S912ZVC19AMLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19AVKHR	935429443528	S912ZVC19AVKHR	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC19AVLFR	935429443528	S912ZVC19AVLFR	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19F1MKH	935428303557	S912ZVC19F1MKH	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC64ACLF	935444322528	S912ZVC64ACLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC64AMKHR	935444436528	S912ZVC64AMKHR	S122,64LQFP-EP,64K FLASH	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC64AMLF	935444378257	S912ZVC64AMLF	S122,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC96AMKH	935444373557	S912ZVC96AMKH	S122,64LQFP-EP,96K FLASH	H(L)QFP64	SOT1510-2	ASM	No	BLAG
S912ZVC96AMKHR	935444373528	S912ZVC96AMKHR	S122,64LQFP-EP,96K FLASH	H(L)QFP64	SOT1510-2	ASM	No	BLAG
S912ZVC96AMLF	935441271557	S912ZVC96AMLF	S122, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC96AMLF	935441271528	S912ZVC96AMLF	S122, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC96AVLFR	935439934528	S912ZVC96AVLFR	S122, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19A1WKHR	935438562528	S912ZVCA19A1WKHR	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVCA19A1WLF	935440578528	S912ZVCA19A1WLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19AMKHR	935444918528	S912ZVCA19AMKHR	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVCA19AMLF	935441297528	S912ZVCA19AMLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19AVLFR	935443026528	S912ZVCA19AVLFR	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19AWKH	935430098557	S912ZVCA19AWKH	S122,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
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S912ZVC12AVKH	935426676557	S912ZVC12AVKH	S122,64LQFP-EP,128K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVC12AVLF	935439935557	S912ZVC12AVLF	S122,48LQFP,128K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC12F1MLF	935422804557	S912ZVC12F1MLF	S122,48LQFP,128K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC19A1WLF	935440581557	S912ZVC19A1WLF	S122,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG

S912ZVC19AMLF	935432524557	S912ZVC19AMLF	S12Z,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC19AVLF	935429433557	S912ZVC19AVLF	S12Z,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVC64ACLF	935446322557	S912ZVC64ACLF	S12Z,48LQFP,64K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
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S912ZVC96AVLF	935439934557	S912ZVC96AVLF	S12Z, 48LQFP, 96K FLASH	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19A1WKH	935438562557	S912ZVCA19A1WKH	S12Z,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
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S912ZVCA19AMKH	935444918557	S912ZVCA19AMKH	S12Z,64LQFP-EP,192K FLAS	H(L)QFP64	SOT1510-2	RFS	No	BLAG
S912ZVCA19AMLF	935441297557	S912ZVCA19AMLF	S12Z,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG
S912ZVCA19AVLF	935443026557	S912ZVCA19AVLF	S12Z,48LQFP,192K FLAS	(L)QFP48	SOT313-3	RFS	No	BLAG