



Customer Information Notification

2022070111 : i.MX RT1160 Data Sheet Update to Rev 2

Note: This notice is NXP Company Proprietary.

Issue Date: Aug 13, 2022 **Effective date:** Aug 14, 2022

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Management summary

Data sheet update to revision 2 for i.MX RT1160.

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

Firmware Other: Data Sheet

PCN Overview

Description

NXP Semiconductor announces a data sheet update to revision 2 for i.MX RT1160. The revision history included in the updated document provides a detailed description of the changes.

Changes are summarized below:

- In Table 49, SEMC input timing in SYNC mode (SEMC_MCR.DQSMD = 0x1), changed the TIS Min value from 2 to 0.6.
- In Table 4. Special signal considerations, in the signal "RTC_XTALI/RTC_XTALO" changed the tolerance from $\pm 10\%$ to $\pm 25\%$.
- In Table 4. Special signal considerations, for the signal "RTX_XTALI/RTX_XTALO" changed VDD_SNVS_DIG to VDD_SNVS_ANA.
- Updated the Figure 3, "i.MX RT1160 system block diagram".
- Updated the Table 1. Order information.

The i.MX RT1160 data sheet is attached to this notice, and can be found at:

https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1160-crossover-mcu-family-high-performance-mcu-with-arm-cortex-m7-and-cortex-m4-cores:i.MX-RT1160?tab=Documentation_Tab&linkline=Data-Sheet

Reason

The data sheet has been updated to correct errors and/or provide additional technical clarification on some device features.

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](#)

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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:

Name	technical support
e-mail address	tech.support@nxp.com

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
MIMXRT1165CVM5A	935421516557	MIMXRT1165CVM5A	i.MXRT1165, Indus,2898GA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
MIMXRT1165DVM6A	935421517557	MIMXRT1165DVM6A	i.MXRT1165, Conm,2898GA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
MIMXRT1166CVM5A	935421518557	MIMXRT1166CVM5A	RT1166,600MHz M7 w/M4,I	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
MIMXRT1166DVM6A	935421519557	MIMXRT1166DVM6A	RT1166,600MHz,M7 w/M4,C	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
MIMXRT1165XVM5A	935424213557	MIMXRT1165XVM5A	i.MXRT1165 Ind 125c	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
MIMXRT1166XVM5A	935424214557	MIMXRT1166XVM5A	i.MXRT1166 Ind 125c	(L)FBGA289M	SOT1534-4	RFS	No	BLM1