



Customer Information Notification

2024010281 : i.MX RT1170 Data Sheet Update to Rev 5

Note: This notice is NXP Company Proprietary.

Issue Date: Apr 19, 2024 **Effective Date:** Apr 20, 2024

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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: Data Sheet				

Notification Overview

Description

NXP Semiconductor announces a data sheet update to revision 5 for i.MX RT1170. The revision history included in the updated document provides a detailed description of the changes.

Changes are summarized below:

1. In Section 4.2.1.2, Power-down sequence, added one restriction at last.
2. In Section 4.2.3.2, LDO_SNVS_DIG, updated the minimal value from 0.65 V to 0.81 V.
3. Added a note in Section 4.2.5, PLL's electrical characteristics.
4. Added Section 4.3.2.2, Overshoot parameters.

The i.MX RT1170 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-rt1170-1-ghz-crossover-mcu-with-arm-cortex-cores:i.MX-RT1170>

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

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 data sheet will be issued

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:

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NXP Quality Management Team.

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12NC	Orderable Part Number	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
935416203518	MIMXRT1176AVM8AR	MIMXRT1176AVM8AR	i.MXRT1170 Auto, 289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416203557	MIMXRT1176AVM8A	MIMXRT1176AVM8A	i.MXRT1170 Auto, 289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416204557	MIMXRT1176CVM8A	MIMXRT1176CVM8A	i.MXRT1170, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935416205557	MIMXRT1176DVMAA	MIMXRT1176DVMAA	i.MXRT1170, 289MAPBGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935416772518	MIMXRT1171AVM8AR	MIMXRT1171AVM8AR	i.MXRT1170, Auto,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416772557	MIMXRT1171AVM8A	MIMXRT1171AVM8A	i.MXRT1170, Auto,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416773557	MIMXRT1171CVM8A	MIMXRT1171CVM8A	i.MXRT1170, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935416774518	MIMXRT1171DVMAAR	MIMXRT1171DVMAAR	i.MXRT1170, Conm,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935416774557	MIMXRT1171DVMAA	MIMXRT1171DVMAA	i.MXRT1170, Conm,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935416775518	MIMXRT1172AVM8AR	MIMXRT1172AVM8AR	RT1172,1052/1062 Upd,A	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416775557	MIMXRT1172AVM8A	MIMXRT1172AVM8A	RT1172,1052/1062 Upd,A	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416776518	MIMXRT1172CVM8AR	MIMXRT1172CVM8AR	i.MXRT1170, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
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935416778557	MIMXRT1173CVM8A	MIMXRT1173CVM8A	RT1173, POS,I	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935416779557	MIMXRT1175AVM8A	MIMXRT1175AVM8A	i.MXRT1170, Auto,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935416781557	MIMXRT1175CVM8A	MIMXRT1175CVM8A	i.MXRT1170, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
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935421521557	MIMXRT117FAVM8A	MIMXRT117FAVM8A	i.MXRT117F, Auto,289BGA	(L)FBGA289M	SOT1534-4	ASM	No	BLAM
935421522557	MIMXRT117FCVM8A	MIMXRT117FCVM8A	i.MXRT117F, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935421523557	MIMXRT117FDVMAA	MIMXRT117FDVMAA	i.MXRT117F, Conm,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
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935421526557	MIMXRT117HDVMAA	MIMXRT117HDVMAA	i.MXRT117H, Conm,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935450811557	MIMXRT117CCVM8A	MIMXRT117CCVM8A	i.MXRT1170, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935450812557	MIMXRT117CDVMAA	MIMXRT117CDVMAA	i.MXRT1170, Conm,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
935450813557	MIMXRT117TAVM8A	MIMXRT117TAVM8A	i.MXRT1170, Auto,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLAM
935450814557	MIMXRT117TCVM8A	MIMXRT117TCVM8A	i.MXRT1170, Indus,289BGA	(L)FBGA289M	SOT1534-4	RFS	No	BLM1
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935463441557	MIMXRT117CAVM8A	MIMXRT117CAVM8A	i.MXRT1170, Auto,289BGA	(L)FBGA289M	SOT1534-4	ASM	No	BLAM