



## Customer Information Notification

2021040171 : i.MX RT1015/RT1020/RT1050/RT1060 Data Sheet Rev 2 Update, i.MX RT1024 Data Sheet Rev 1 Update and i.MX RT1064 Data Sheet Rev 3 Update

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

**Issue Date:** May 08, 2021 **Effective date:** May 09, 2021

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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

## PCN Overview

### Description

NXP Semiconductors announces i.MX RT1015/RT1020/RT1050/RT1060 data sheets update to revision 2, i.MX RT1024 data sheet update to revision 1 and i.MX RT1064 data sheet update to revision 3. The revision history included in the updated document provides a detailed description of the changes. Please refer to attached RT10xx\_Change\_Summary.pdf file for detail update.

Please pay attention to the following two items:

1. DCDC power up sequence in the Section 4.2.1.1, Power-up sequence.
2. Pad state note before reset in functional contact assignments table.

The i.MX RT1015 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-rt1015-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1015?tab=Documentation\\_Tab&linkline=Data-Sheet](https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1015-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1015?tab=Documentation_Tab&linkline=Data-Sheet)

The i.MX RT1020 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-rt1020-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1020?tab=Documentation\\_Tab&linkline=Data-Sheet](https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1020-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1020?tab=Documentation_Tab&linkline=Data-Sheet)

The i.MX RT1024 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-rt1024-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1024?tab=Documentation\\_Tab&linkline=Data-Sheet](https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1024-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1024?tab=Documentation_Tab&linkline=Data-Sheet)

The i.MX RT1050 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-rt1050-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1050?tab=Documentation\\_Tab&linkline=Data-Sheet](https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1050-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1050?tab=Documentation_Tab&linkline=Data-Sheet)

The i.MX RT1060 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-rt1060-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1060?tab=Documentation\\_Tab&linkline=Data-Sheet](https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1060-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1060?tab=Documentation_Tab&linkline=Data-Sheet)

The i.MX RT1064 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-rt1064-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1064?tab=Documentation\\_Tab&linkline=Data-Sheet](https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/i-mx-rt-crossover-mcus/i-mx-rt1064-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1064?tab=Documentation_Tab&linkline=Data-Sheet)

#### **Reason**

The data sheets have 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**

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

#### **Data Sheet Revision**

A new datasheet will be issued

### **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:

**Name**                      technical support

**e-mail address**            tech.support@nxp.com

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

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
MIMXRT1015CAF4AR	935380892528	MIMXRT1015CAF4AR	i.MXRT1015, 100LQFP	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1015CAF4A	935380892557	MIMXRT1015CAF4A	i.MXRT1015, 100LQFP	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1015DAF5A	935380893557	MIMXRT1015DAF5A	i.MXRT1015, 100LQFP	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1015CAF4B	935396794557	MIMXRT1015CAF4B	i.MXRT1015 100LQFP USB	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1015DAF5B	935396795557	MIMXRT1015DAF5B	i.MXRT1015 100LQFP USB	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1021CAF4A	935360317557	MIMXRT1021CAF4A	i.MXRT1020 100LQFP	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1021CAG4AR	935360318528	MIMXRT1021CAG4AR	i.MXRT1020 144LQFP	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1021CAG4A	935360318557	MIMXRT1021CAG4A	i.MXRT1020 144LQFP	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1021DAF5A	935360319557	MIMXRT1021DAF5A	i.MXRT1020 100LQFP	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1021DAG5A	935360321557	MIMXRT1021DAG5A	i.MXRT1020 144LQFP	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1021CAF4B	935396796557	MIMXRT1021CAF4B	i.MXRT1020 100LQFP USB	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1021CAG4BR	935396798528	MIMXRT1021CAG4BR	i.MXRT1020 144LQFP USB	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1021CAG4B	935396798557	MIMXRT1021CAG4B	i.MXRT1020 144LQFP USB	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1021DAF5B	935396799557	MIMXRT1021DAF5B	i.MXRT1020 100LQFP USB	(L)QFP100	SOT407-3	RFS	No	BLM1
MIMXRT1021DAG5B	935396801557	MIMXRT1021DAG5B	i.MXRT1020 144LQFP USB	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1024CAG4A	935416162557	MIMXRT1024CAG4A	i.MXRT1024	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1024DAG5A	935416163557	MIMXRT1024DAG5A	i.MXRT1024	(L)QFP144	SOT486-2	RFS	No	BLM1
MIMXRT1051CVL5A	935351121557	MIMXRT1051CVL5A	i.MXRT1050	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1051DVL6A	935351122557	MIMXRT1051DVL6A	i.MXRT1050	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1052CVL5A	935351123557	MIMXRT1052CVL5A	i.MXRT1050	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1052DVL6A	935351124557	MIMXRT1052DVL6A	i.MXRT1050	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1051CVL5B	935365838557	MIMXRT1051CVL5B	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1051DVL6BR	935365839518	MIMXRT1051DVL6BR	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1051DVL6B	935365839557	MIMXRT1051DVL6B	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1052CVL5BR	935365841518	MIMXRT1052CVL5BR	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1052CVL5B	935365841557	MIMXRT1052CVL5B	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1052DVL6BR	935365842518	MIMXRT1052DVL6BR	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1052DVL6B	935365842557	MIMXRT1052DVL6B	i.MXRT1050 A1	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1051DVJ6B	935376003557	MIMXRT1051DVJ6B	i.MXRT1050 BGA12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1052CVJ5B	935376004557	MIMXRT1052CVJ5B	i.MXRT1050 BGA12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1052DVJ6B	935376005557	MIMXRT1052DVJ6B	i.MXRT1050 BGA12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1051CVJ5BR	935383268518	MIMXRT1051CVJ5BR	i.MXRT1050 BGA12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1051CVJ5B	935383268557	MIMXRT1051CVJ5B	i.MXRT1050 BGA12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1055CVL5B	935420436557	MIMXRT1055CVL5B	i.MXRT105A	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1055DVL6B	935420437557	MIMXRT1055DVL6B	i.MXRT105A	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1061CVL5A	935373201557	MIMXRT1061CVL5A	i.MXRT1060	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1061DVL6A	935373202557	MIMXRT1061DVL6A	i.MXRT1060	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1062CVL5A	935373203557	MIMXRT1062CVL5A	i.MXRT1060	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1062DVL6A	935373204557	MIMXRT1062DVL6A	i.MXRT1060	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1064CVL5A	935377468557	MIMXRT1064CVL5A	i.MXRT1064	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1064DVL6AR	935377469518	MIMXRT1064DVL6AR	i.MXRT1064	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1064DVL6A	935377469557	MIMXRT1064DVL6A	i.MXRT1064	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1061CVJ5AR	935379986518	MIMXRT1061CVJ5AR	i.MXRT1060	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1061CVJ5A	935379986557	MIMXRT1061CVJ5A	i.MXRT1060	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062CVJ5AR	935379987518	MIMXRT1062CVJ5AR	i.MXRT1060	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062CVJ5A	935379987557	MIMXRT1062CVJ5A	i.MXRT1060	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062DVJ6A	935379988557	MIMXRT1062DVJ6A	i.MXRT1060	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT106ADVL6AR	935385521518	MIMXRT106ADVL6AR	i.MXRT106A	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106ADVL6A	935385521557	MIMXRT106ADVL6A	i.MXRT106A	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1061DVJ6A	935386102557	MIMXRT1061DVJ6A	i.MXRT1060	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1061DVL6B	935388058557	MIMXRT1061DVL6B	i.MXRT1060, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106CDVL6A	935389816557	MIMXRT106CDVL6A	i.MXRT106C, 196MAPBGA	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106FDVL6A	935389817557	MIMXRT106FDVL6A	i.MXRT106F, 196MAPBGA	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106LDVL6A	935389818557	MIMXRT106LDVL6A	i.MXRT106L, 196MAPBGA	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106SDVL6A	935389819557	MIMXRT106SDVL6A	i.MXRT106S, 196MAPBGA	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1061CVJ5BR	935394375518	MIMXRT1061CVJ5BR	i.MXRT1060 12*12 USB Fix	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1061CVJ5B	935394375557	MIMXRT1061CVJ5B	i.MXRT1060 12*12 USB Fix	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1061CVL5B	935394376557	MIMXRT1061CVL5B	i.MXRT1060, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1061DVJ6B	935394377557	MIMXRT1061DVJ6B	i.MXRT1060 12*12 USB Fix	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062CVJ5BR	935394379518	MIMXRT1062CVJ5BR	i.MXRT1060 12*12 USB Fix	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062CVJ5B	935394379557	MIMXRT1062CVJ5B	i.MXRT1060 12*12 USB Fix	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062CVL5BR	935394381518	MIMXRT1062CVL5BR	i.MXRT1060, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1062CVL5B	935394381557	MIMXRT1062CVL5B	i.MXRT1060, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1062DVJ6B	935394382557	MIMXRT1062DVJ6B	i.MXRT1060 12*12 USB Fix	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1062DVL6B	935394383557	MIMXRT1062DVL6B	i.MXRT1060, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1064CVJ5A	935396434557	MIMXRT1064CVJ5A	i.MXRT1064 12*12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1064DVJ6A	935396435557	MIMXRT1064DVJ6A	i.MXRT1064 12*12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1064CVJ5B	935399266557	MIMXRT1064CVJ5B	i.MXRT1064 USB Fix 12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1064CVL5B	935399267557	MIMXRT1064CVL5B	i.MXRT1064 USB Fix 10	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1064DVJ6B	935399268557	MIMXRT1064DVJ6B	i.MXRT1064 USB Fix 12	(L)FBGA196M	SOT1968-1	RFS	No	BLM1
MIMXRT1064DVL6BR	935399271518	MIMXRT1064DVL6BR	i.MXRT1064 USB Fix 10	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT1064DVL6B	935399271557	MIMXRT1064DVL6B	i.MXRT1064 USB Fix 10	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106ADVL6BR	935399817518	MIMXRT106ADVL6BR	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106ADVL6B	935399817557	MIMXRT106ADVL6B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106CDVL6B	935399818557	MIMXRT106CDVL6B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106FDVL6B	935399819557	MIMXRT106FDVL6B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106LDVL6B	935399821557	MIMXRT106LDVL6B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106SDVL6B	935399822557	MIMXRT106SDVL6B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106ACVL5B	935414459557	MIMXRT106ACVL5B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106FCVL5B	935414461557	MIMXRT106FCVL5B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106LCLV5B	935414462557	MIMXRT106LCLV5B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1
MIMXRT106SCLV5B	935420438557	MIMXRT106SCLV5B	i.MXRT106A, USB Fix	(L)FBGA196M	SOT1546-2	RFS	No	BLM1