



Customer Information Notification

2021110171 : i.MX RT1024 Errata Rev 2, i.MX RT1050 Errata Rev 3, i.MX RT1010 Errata Rev 1, i.MX RT1060/RT1064 Silicon A Errata Rev 1.3 and i.MX RT1060/RT1064 Silicon B Errata Rev 1.1 Updates

Note: This notice is NXP Company Proprietary.

Issue Date: Dec 22, 2021 **Effective date:** Dec 23, 2021

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Management summary

Errata update to revision 2 for i.MX RT1024, an errata update to revision 3 for i.MX RT1050, an errata update to revision 1 for i.MX RT1010, an errata update to revision 1.3 for i.MX RT1060/RT1064 Silicon A and an errata update to revision 1.1 for i.MX RT1060/RT1064 Silicon B.

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 checked="" 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
<input type="checkbox"/> Firmware	<input type="checkbox"/> Other			

PCN Overview

Description

NXP Semiconductors announces an errata update to revision 2 for i.MX RT1024, an errata update to revision 3 for i.MX RT1050, an errata update to revision 1 for i.MX RT1010, an errata update to revision 1.3 for i.MX RT1060/RT1064 Silicon A and an errata update to revision 1.1 for i.MX RT1060/RT1064 Silicon B. The revision history included in the updated documents provides a detailed description of the changes.

The common changes for RT1024, RT1050, RT1010 and RT1060/RT1064 silicon A/B are summarized below:

- Added the following errata:
 - ERR050606: LPSPi: TCR value does not get resampled when polling the Register
 - ERR050607: LPSPi: TCR[FRAMSZ] can be ignored when TCR[TXMSK] = 1b
 - ERR011573: Core: Speculative accesses might be performed to memory unmapped in MPU

The common changes for RT1024, RT1050 and RT1010 are summarized below:

- Added the errata ERR050538: SOC: Potential boot failure on system reset if SJC_DISABLE fuse is blown

The common changes for RT1060/RT1064 silicon A and silicon B are summarized below:

- Removed the following errata:
 - ERR006281: USB: Incorrect DP/DN state when only VBUS is applied
 - ERR007265: CCM: SoC will enter low power mode before the ARM A9 CPU executes WFI when improper low power sequence is used
- Added the following errata:
 - ERR050143: CCM: SoC will enter low power mode before the ARM CPU executes WFI when improper low power sequence is used
 - ERR050246: FlexCAN: Receive Message Buffers may have its Code Field corrupted if the Receive FIFO function is used
- Modified the errata ERR010661: USB: There is an vbus leakage if USBOTG1's vbus is on, and USBOTG2's vbus from on to off for i.MX series

i.MX RT1024 Chip Errata has the following additional change:

- Modified the errata ERR050101: USB: Endpoint conflict issue in device mode

i.MX RT1010 Chip Errata has the following additional change:

- Modified the errata ERR011377: FlexSPI: DLL lock status bit not accurate due to timing issue

i.MX RT1060/RT1064 silicon A Chip Errata has the following additional change:

- Modified the errata ERR050469: SEMC: 8/16bit write to 8bit PSRAM might cause data corruption

The i.MX RT1024 errata 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=Errata

The i.MX RT1050 errata 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=Errata

The i.MX RT1010 errata 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-rt1010-crossover-mcu-with-arm-cortex-m7-core:i.MX-RT1010?tab=Documentation_Tab&linkline=Errata

The i.MX RT1060 errata 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=Errata

The i.MX RT1064 errata 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=Errata

Reason

The errata was added or updated for 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

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

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NXP Quality Management Team.

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	New Orderable Part#	12NC New	Product Type New	Product Description New	Product Line	Notes
MIMXRT1024CAG4A	935416162557	MIMXRT1024CAG4A	i.MXRT1024	(L)QFP144	SOT486-2	RFS	No					BLM1	
MIMXRT1024DAG5A	935416163557	MIMXRT1024DAG5A	i.MXRT1024	(L)QFP144	SOT486-2	RFS	No					BLM1	
MIMXRT1024CAG4B	935428156557	MIMXRT1024CAG4B	i.MXRT1024 RevB	(L)QFP144	SOT486-2	ASM	No					BLM1	
MIMXRT1024DAG5B	935428157557	MIMXRT1024DAG5B	i.MXRT1024 RevB	(L)QFP144	SOT486-2	ASM	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	
MIMXRT1011CAE4A	935389372557	MIMXRT1011CAE4A	i.MXRT1010 80LQFP	(L)QFP80	SOT315-2	RFS	No					BLM1	
MIMXRT1011DAE5AR	935389373528	MIMXRT1011DAE5AR	i.MXRT1010 80LQFP	(L)QFP80	SOT315-2	RFS	No					BLM1	
MIMXRT1011DAE5A	935389373557	MIMXRT1011DAE5A	i.MXRT1010 80LQFP	(L)QFP80	SOT315-2	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	
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	
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	

