MCXC162VFT_0P18R

Mask Set Errata

Rev. 1.0 — 1 June 2026 Errata

1 Mask Set Errata for Mask 0P18R

1.1 Revision History

This report applies to mask 0P18R for these products:

- MCXC151VFT
- MCXC161VFT
- MCXC151VLF
- MCXC161VLF
- MCXC162VLF
- MCXC162VFT
- MCXC151VFG
- MCXC161VFG
- MCXC162VFG
- MCXC151VFK
- MCXC161VFK
- MCXC162VFK
- MCXC151VFM
- MCXC161VFM
- MCXC162VFM

Table 1. Revision History

Revision	Release Date	Significant Changes
1.0	6/2026	Initial Revision

1.2 Summary of Arm Software Developers Errata Notice

This table summarizes all known Arm errata and lists the corresponding silicon revision level to which they apply. A 'Yes' entry indicates the erratum applies to a particular revision level, and a 'No' entry means it does not apply.

Table 2. Summary of Arm Software Developers Errata Notice

SDEN ID	Category	NXP Errata Number	Summary of Erratum	Silicon Rev.
				1
Arm Cortex-M23				
1078140	CatC	ERR053213	Arm Errata 1078140 [Cortex-M23]: Cortex-M23 might not respond with DAP PWRUPACK for DAPPWRUPREQ, when DAPPWRUPREQ is asserted and debug domain is already powered up	Yes
2640347	CatC	ERR053214	Arm Errata 2640347 [Cortex-M23]: Non-secure write to SHCSR.HARDFAULTPENDED_	Yes

Table 2. Summary of Arm Software Developers Errata Notice*...continued*

SDEN ID	Category	NXP Errata Number	Summary of Erratum	Silicon Rev.
				1
			NS incorrectly updates state when AIRCR. BFHFNMINS is 0	

1.3 Errata and Information Summary

Table 3. Errata and Information Summary

Erratum ID	Erratum Title
ERR053261	LPI2C: Controller: Back-to-Back Read Command in Transmit FIFO does not work always
ERR053423	MCU can't wakeup from Sleep (CMC CKCTRL[CKMODE] = 1b), Deep Sleep, Power Down modes by interrupt

2 Known Errata

ERR053261: LPI2C: Controller: Back-to-Back Read Command in Transmit FIFO does not work always

Description

Transmit FIFO of LPI2C (accessed via MTDR register) stores command and data to initiate various I2C operations, similarly Receive FIFO (accessed via MRDR register) stores receive data during controller-receiver transfers. Ideally, LPI2C controller should stall the transfer by keeping SCL line low when the Receive FIFO is full, but this does not happen if the transmit FIFO is not empty and the next command is a READ, so the receive data is lost.

Workaround

Always interleave consecutive READ commands by any one of STOP, Start or Repeated Start command.

ERR053423: MCU can't wakeup from Sleep (CMC CKCTRL[CKMODE] = 1b), Deep Sleep, Power Down modes by interrupt

Description

Due to different Wakeup Interrupt Controller (WIC) implementation on M23, MCU can't wakeup from Sleep (CMC CKCTRL[CKMODE] = 1b), Deep Sleep, Power Down modes by interrupt, while it can wakeup from Sleep (CMC CKCTRL[CKMODE] = 0b) and Deep Power Down modes.

Workaround

There're two methods to wakeup MCU as workaround.

1. Enable Core mode controller interrupt by enabling IRQ number 1, i.e. "enableIRQ(CMC_IRQn); ".

In this way, any interrupt can wakeup MCU from low power modes. Users need to disable the unwanted interrupts before entering low power modes. The RTC Time Invalid Flag/Interrupt is set by default, and it must be cleared to avoid blocking the SoC from entering low power mode when the CMC interrupt is enabled.

2. Set the given wakeup interrupt as Non-Maskable Interrupt (NMI) interrupt by setting NMISRC register, and enable NMI interrupt as wakeup source (enable SYSCON NMISRC[NMIENCPU0], CMC CORECTL[NPIE] and NMI interrupt in NVIC). In this way, NMI interrupt will wakeup MCU but users should be aware that it is NMI interrupt service routing instead of the normal ISR.

Legal information

Definitions

Draft — A draft status on a document indicates that the content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included in a draft version of a document and shall have no liability for the consequences of use of such information.

Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of NXP Semiconductors.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use — NXP Semiconductors products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an NXP Semiconductors product can reasonably be expected to result in personal injury, death or severe property or environmental damage. NXP Semiconductors and its suppliers accept no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using NXP Semiconductors products, and NXP Semiconductors accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the NXP Semiconductors product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

NXP Semiconductors does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using NXP Semiconductors products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). NXP does not accept any liability in this respect.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

Terms and conditions of commercial sale — NXP Semiconductors products are sold subject to the general terms and conditions of commercial sale, as published at https://www.nxp.com/profile/terms, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. NXP Semiconductors hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of NXP Semiconductors products by customer.

No offer to sell or license — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

Quick reference data — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Suitability for use in non-automotive qualified products — Unless this document expressly states that this specific NXP Semiconductors product is automotive qualified, the product is not suitable for automotive use. It is neither qualified nor tested in accordance with automotive testing or application requirements. NXP Semiconductors accepts no liability for inclusion and/or use of non-automotive qualified products in automotive equipment or applications.

In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without NXP Semiconductors' warranty of the product for such automotive applications, use and specifications, and (b) whenever customer uses the product for automotive applications beyond NXP Semiconductors' specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies NXP Semiconductors for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond NXP Semiconductors' standard warranty and NXP Semiconductors' product specifications.

HTML publications — An HTML version, if available, of this document is provided as a courtesy. Definitive information is contained in the applicable document in PDF format. If there is a discrepancy between the HTML document and the PDF document, the PDF document has priority.

Translations — A non-English (translated) version of a document, including the legal information in that document, is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

Security — Customer understands that all NXP products may be subject to unidentified vulnerabilities or may support established security standards or specifications with known limitations. Customer is responsible for the design and operation of its applications and products throughout their lifecycles to reduce the effect of these vulnerabilities on customer's applications and products. Customer's responsibility also extends to other open and/or proprietary technologies supported by NXP products for use in customer's applications. NXP accepts no liability for any vulnerability. Customer should regularly check security updates from NXP and follow up appropriately.

Customer shall select products with security features that best meet rules, regulations, and standards of the intended application and make the ultimate design decisions regarding its products and is solely responsible for compliance with all legal, regulatory, and security related requirements concerning its products, regardless of any information or support that may be provided by NXP.

NXP has a Product Security Incident Response Team (PSIRT) (reachable at PSIRT@nxp.com) that manages the investigation, reporting, and solution release to security vulnerabilities of NXP products.

NXP B.V. — NXP B.V. is not an operating company and it does not distribute or sell products.

Trademarks

Notice: All referenced brands, product names, service names, and trademarks are the property of their respective owners.

NXP — wordmark and logo are trademarks of NXP B.V.

Contents