



Product Change Notification - SYST-14CYWK700

Date:

16 Mar 2018

Product Category:

32-bit PIC Microcontrollers

Affected CPNs:



Notification subject:

ERRATA - SAM 4S Series Family Silicon Errata and Data Sheet Clarification Errata Document Revision

Notification text:

SYST-14CYWK700

Microchip has released a new DeviceDoc for the SAM 4S Series Family Silicon Errata and Data Sheet Clarification of devices. If you are using one of these devices please read the document located at [SAM 4S Series Family Silicon Errata and Data Sheet Clarification](#).

Notification Status: Final

Description of Change: Initial release of document.

Impacts to Data Sheet: None

Reason for Change: To Improve Productivity

Change Implementation Status: Complete

Date Document Changes Effective: 16 Mar 2018

NOTE: Please be advised that this is a change to the document only the product has not been changed.

Markings to Distinguish Revised from Unrevised Devices: N/A

Attachment(s):

[SAM 4S Series Family Silicon Errata and Data Sheet Clarification](#)

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SAM 4S Series Family Silicon Errata and Data Sheet Clarification

The SAM 4S Series family of devices that you have received conform functionally to the current Device Data Sheet (11100K-ATARM-SAM4S-Datasheet_09-Jun-15), except for the anomalies described in this document.

New Silicon Errata Issues

Note: This document provides information on new errata issues for the SAM 4S Series of devices. Please refer to the current device data sheet for all pre-existing silicon errata issues.

1. Module: Voltage Regulator

The embedded voltage regulator does not work under temperatures below +25°C when VDDIN is supplied below 2.8V.

Work around

VDDIN must be supplied at 2.8V minimum to guarantee embedded voltage regulator start-up down to -40°C.

Affected Silicon Revisions

A	B						
X							

Note: Not applicable to ATSAM4S2 and ATSAM4S4 derivatives.

2. Module: ADC

Using ADC under these conditions: VDDANA < 2.4V or ADVREF < 2.4V, and temperature T° < 0°C, the ADC does not start.

Work around

Use reserved value of IBCTL field in the ADC Analog Control Register (ADC_ACR) IBCTL= 11b to ensure a correct startup of the ADC with a higher bias current (Typically, +50% higher than the standard configuration). This setup can be kept for standard analog conversions. If current consumption is critical, the IBCTL field setting must be kept to 11b at least during 20µs before being changed to its nominal value.

Affected Silicon Revisions

A	B						
X	X						

SAM 4S SERIES

Data Sheet Clarifications

In the current device data sheet, the SAM4S Ordering Codes table (Table 47-1) is incorrect. The correct information is provided in the following table.

TABLE 47-1: SAM4S ORDERING CODES TABLE

Ordering Code	MRL	Flash (Kbytes)	SRAM (Kbytes)	Package	Carrier Type	Operating Temperature Range
ATSAM4SD32CA-CU	A	2*1024	160	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD32CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4SD32CA-CFU	A	2*1024	160	VFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD32CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4SD32CA-AU	A	2*1024	160	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD32CB-AN	B					Industrial (-40°C to +105°C)
ATSAM4SD32BA-MU	A	2*1024	160	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD32BB-MN	B					Industrial (-40°C to +105°C)
ATSAM4SD32BA-AU	A	2*1024	160	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD32BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4SD32BA-UUR	A	2*1024	160	WLCSP64	Tape and Reel	Industrial (-40°C to +85°C)
ATSAM4SD32BB-UUR	B					
ATSAM4SD16CA-CU	A	2*1024	160	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD16CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4SD16CA-CFU	A	2*512	160	VFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD16CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4SD16CA-AU	A	2*512	160	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD16CB-AN	B					Industrial (-40°C to +105°C)
ATSAM4SD16BA-MU	A	2*512	160	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD16BB-MN	B					Industrial (-40°C to +105°C)
ATSAM4SD16BA-AU	A	2*512	160	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SD16BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4SD16BA-UUR	A	2*512	160	WLCSP64	Tape and Reel	Industrial (-40°C to +85°C)
ATSAM4SD16BB-UUR	B					
ATSAM4SA16CA-CU	A	1024	160	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SA16CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4SA16CA-CFU	A	1024	160	VFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SA16CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4SA16CA-AU	A	1024	160	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SA16CB-AN	B					Industrial (-40°C to +105°C)
ATSAM4SA16BA-MU	A	1024	160	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SA16BB-MN	B					Industrial (-40°C to +105°C)
ATSAM4SA16BA-AU	A	1024	160	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4SA16BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S16CA-CU	A	1024	128	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S16CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4S16CA-AU	A	1024	128	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S16CB-AN	B					Industrial (-40°C to +105°C)

SAM 4S SERIES

Ordering Code	MRL	Flash (Kbytes)	SRAM (Kbytes)	Package	Carrier Type	Operating Temperature Range
ATSAM4S16CA-CFU	A	1024	128	VFPGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S16CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4S16BA-AU	A	1024	128	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S16BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S16BA-MU	A	1024	128	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S16BB-MN	B					Industrial (-40°C to +105°C)
ATSAM4S16BA-UUR	A	1024	128	WLCSP64	Tape and Reel	Industrial (-40°C to +85°C)
ATSAM4S16BB-UUR	B					
ATSAM4S8CA-CU	A	512	128	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S8CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4S8CA-CFU	A	1024	128	VFPGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S8CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4S8CA-AU	A	1024	128	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S8CB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S8BA-MU	A	1024	128	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S8BB-MN	B					Industrial (-40°C to +105°C)
ATSAM4S8BA-UUR	A	512	128	WLCSP64	Tape and Reel	Industrial (-40°C to +85°C)
ATSAM4S8BB-UUR	B					
ATSAM4S8BA-AU	A	512	128	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S8BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S4CA-CU	A	256	64	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4S4CA-CFU	A	256	64	VFPGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4S4CA-AU	A	256	64	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4CB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S4BA-MU	A	256	64	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4BB-MN	B					Industrial (-40°C to +105°C)
ATSAM4S4BA-UUR	A	256	64	WLCSP64	Tape and Reel	Industrial (-40°C to +85°C)
ATSAM4S4BB-UUR	B					
ATSAM4S4BA-AU	A	256	64	LQFP64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S4AA-MU	A	256	64	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4AB-MN	B					Industrial (-40°C to +105°C)
ATSAM4S4AA-AU	A	256	64	LQFP48	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S4AB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S2CA-CU	A	256	64	TFBGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2CB-CN	B					Industrial (-40°C to +105°C)
ATSAM4S2CA-CFU	A	256	64	VFPGA100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2CB-CFN	B					Industrial (-40°C to +105°C)
ATSAM4S2CA-AU	A	256	64	LQFP100	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2CB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S2BA-MU	A	256	64	QFN64	Tray, Tape and Reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2BB-MN	B					Industrial (-40°C to +105°C)

SAM 4S SERIES

Ordering Code	MRL	Flash (Kbytes)	SRAM (Kbytes)	Package	Carrier Type	Operating Temperature Range
ATSAM4S2BA-UUR	A	128	64	WLCSP64	Tape and Reel	Industrial (-40°C to +85°C)
ATSAM4S2BB-UUR	B					
ATSAM4S2BA-AU	A	128	64	LQFP64	Tray, Tape and reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2BB-AN	B					Industrial (-40°C to +105°C)
ATSAM4S2AA-MU	A	256	64	QFN48	Tray, Tape and reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2AB-MN	B					Industrial (-40°C to +105°C)
ATSAM4S2AA-AU	A	256	64	LQFP48	Tray, Tape and reel (add R to ordering code)	Industrial (-40°C to +85°C)
ATSAM4S2AB-AN	B					Industrial (-40°C to +105°C)

APPENDIX A: REVISION HISTORY

Rev A Document (3/2018)

This is the initial released version of this document.

SAM 4S SERIES

NOTES:

Note the following details of the code protection feature on Microchip devices:

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China - Beijing
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China - Chengdu
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China - Guangzhou
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China - Wuhan
Tel: 86-27-5980-5300

China - Xian
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China - Xiamen
Tel: 86-592-2388138

China - Zhuhai
Tel: 86-756-3210040

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India - Bangalore
Tel: 91-80-3090-4444

India - New Delhi
Tel: 91-11-4160-8631

India - Pune
Tel: 91-20-4121-0141

Japan - Osaka
Tel: 81-6-6152-7160

Japan - Tokyo
Tel: 81-3-6880-3770

Korea - Daegu
Tel: 82-53-744-4301

Korea - Seoul
Tel: 82-2-554-7200

Malaysia - Kuala Lumpur
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Malaysia - Penang
Tel: 60-4-227-8870

Philippines - Manila
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Taiwan - Kaohsiung
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Taiwan - Taipei
Tel: 886-2-2508-8600

Thailand - Bangkok
Tel: 66-2-694-1351

Vietnam - Ho Chi Minh
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Austria - Wels
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Fax: 43-7242-2244-393

Denmark - Copenhagen
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Fax: 45-4485-2829

Finland - Espoo
Tel: 358-9-4520-820

France - Paris
Tel: 33-1-69-53-63-20
Fax: 33-1-69-30-90-79

Germany - Garching
Tel: 49-8931-9700

Germany - Haan
Tel: 49-2129-3766400

Germany - Heilbronn
Tel: 49-7131-67-3636

Germany - Karlsruhe
Tel: 49-721-625370

Germany - Munich
Tel: 49-89-627-144-0
Fax: 49-89-627-144-44

Germany - Rosenheim
Tel: 49-8031-354-560

Israel - Ra'anana
Tel: 972-9-744-7705

Italy - Milan
Tel: 39-0331-742611
Fax: 39-0331-466781

Italy - Padova
Tel: 39-049-7625286

Netherlands - Drunen
Tel: 31-416-690399
Fax: 31-416-690340

Norway - Trondheim
Tel: 47-7289-7561

Poland - Warsaw
Tel: 48-22-3325737

Romania - Bucharest
Tel: 40-21-407-87-50

Spain - Madrid
Tel: 34-91-708-08-90
Fax: 34-91-708-08-91

Sweden - Gothenberg
Tel: 46-31-704-60-40

Sweden - Stockholm
Tel: 46-8-5090-4654

UK - Wokingham
Tel: 44-118-921-5800
Fax: 44-118-921-5820

SYST-14CYWK700 - ERRATA - SAM 4S Series Family Silicon Errata and Data Sheet Clarification Errata Do

Affected Catalog Part Numbers(CPN)

ATSAM4SA16BA-AU
ATSAM4SA16BA-AUR
ATSAM4SA16BA-MU
ATSAM4SA16BA-MUR
ATSAM4SA16BB-AN
ATSAM4SA16BB-ANR
ATSAM4SA16BB-MN
ATSAM4SA16BB-MNR
ATSAM4SA16CA-AU
ATSAM4SA16CA-AUR
ATSAM4SA16CA-CFU
ATSAM4SA16CA-CFUR
ATSAM4SA16CA-CU
ATSAM4SA16CA-CUR
ATSAM4SA16CB-AN
ATSAM4SA16CB-ANR
ATSAM4SA16CB-CFN
ATSAM4SA16CB-CFNR
ATSAM4SA16CB-CN
ATSAM4SA16CB-CNR
ATSAM4SD16BA-AU
ATSAM4SD16BA-AUR
ATSAM4SD16BA-MU
ATSAM4SD16BA-MUR
ATSAM4SD16BA-UUR
ATSAM4SD16BB-AN
ATSAM4SD16BB-ANR
ATSAM4SD16BB-MN
ATSAM4SD16BB-MNR
ATSAM4SD16BB-UUR
ATSAM4SD16CA-AU
ATSAM4SD16CA-AUR
ATSAM4SD16CA-CFU
ATSAM4SD16CA-CFUR
ATSAM4SD16CA-CU
ATSAM4SD16CA-CUR
ATSAM4SD16CB-AN
ATSAM4SD16CB-ANR
ATSAM4SD16CB-CFN
ATSAM4SD16CB-CFNR
ATSAM4SD16CB-CN
ATSAM4SD16CB-CNR

ATSAM4SD32BA-AU
ATSAM4SD32BA-AUR
ATSAM4SD32BA-MU
ATSAM4SD32BA-MUR
ATSAM4SD32BA-UUR
ATSAM4SD32BB-AN
ATSAM4SD32BB-ANR
ATSAM4SD32BB-MN
ATSAM4SD32BB-MNR
ATSAM4SD32BB-UUR
ATSAM4SD32CA-AU
ATSAM4SD32CA-AUR
ATSAM4SD32CA-CFU
ATSAM4SD32CA-CFUR
ATSAM4SD32CA-CU
ATSAM4SD32CA-CUR
ATSAM4SD32CB-AN
ATSAM4SD32CB-ANR
ATSAM4SD32CB-CFN
ATSAM4SD32CB-CFNR
ATSAM4SD32CB-CN
ATSAM4SD32CB-CNR

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