



# Product/Process Change Notification (PCN)

**PCN Number:** WC161402  
**PCN Title:** SAM4E rev B  
**PCN Issue Date:** 6-Jun-16  
**Proposed First Ship Date:** 6-Sep-16

**Change Category:**

<input type="checkbox"/> Material / Composition	<input type="checkbox"/> Manufacturing Location
<input type="checkbox"/> Processing / Manufacturing	<input type="checkbox"/> Quality / Reliability
<input checked="" type="checkbox"/> Design / Firmware	<input type="checkbox"/> Logistics
<input type="checkbox"/> Datasheet	<input type="checkbox"/> Other:

### Change Description:

*Changed Item	Current	New
Errata 50.3.1	Flash: Incorrect Flash Read May Occur Depending on VDDIO Voltage and Flash Wait State	N/A

**Reason for Change:** This new revision improves flash functionality over voltage range speed and is pin and code compatible with the previous revision and is a drop-in replacement. This revision also offers a temperature grade of -40°C to 105°C as standard for all devices.

**Change Impact:** None

### Product Identification:

Current Part Number	New Part Number (if applicable)
ATSAM4E16EA-CU	ATSAM4E16EB-CN
ATSAM4E16EA-CUR	ATSAM4E16EB-CNR
ATSAM4E16EA-AU	ATSAM4E16EB-AN
ATSAM4E16EA-AUR	ATSAM4E16EB-ANR
ATSAM4E16EA-AN	ATSAM4E16EB-AN
ATSAM4E16EA-ANR	ATSAM4E16EB-ANR
ATSAM4E16CA-CU	ATSAM4E16CB-CN
ATSAM4E16CA-CUR	ATSAM4E16CB-CNR
ATSAM4E16CA-AU	ATSAM4E16CB-AN
ATSAM4E16CA-AUR	ATSAM4E16CB-ANR
ATSAM4E16CA-AN	ATSAM4E16CB-AN
ATSAM4E16CA-ANR	ATSAM4E16CB-ANR
ATSAM4E8EA-CU	ATSAM4E8EB-CN
ATSAM4E8EA-CUR	ATSAM4E8EB-CNR
ATSAM4E8EA-AU	ATSAM4E8EB-AN
ATSAM4E8EA-AUR	ATSAM4E8EB-ANR
ATSAM4E8EA-AN	ATSAM4E8EB-AN
ATSAM4E8EA-ANR	ATSAM4E8EB-ANR
ATSAM4E8CA-CU	ATSAM4E8CB-CN
ATSAM4E8CA-CUR	ATSAM4E8CB-CNR
ATSAM4E8CA-AU	ATSAM4E8CB-AN
ATSAM4E8CA-AUR	ATSAM4E8CB-ANR
ATSAM4E8CA-AN	ATSAM4E8CB-AN
ATSAM4E8CA-ANR	ATSAM4E8CB-ANR

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## Samples Availability

Part Number	Sample ordering code	Remarks
ATSAM4E16CB-AN	ATSAM4E16CB-AN	<input checked="" type="checkbox"/> Currently available <input type="checkbox"/> Will be available: <input type="checkbox"/> Not Applicable
ATSAM4E16EB-AN	ATSAM4E16EB-AN	<input checked="" type="checkbox"/> Currently available <input type="checkbox"/> Will be available: <input type="checkbox"/> Not Applicable
ATSAM4E16CB-CN	ATSAM4E16CB-CN	<input checked="" type="checkbox"/> Currently available <input type="checkbox"/> Will be available: <input type="checkbox"/> Not Applicable
ATSAM4E16EB-CN	ATSAM4E16EB-CN	<input checked="" type="checkbox"/> Currently available <input type="checkbox"/> Will be available: <input type="checkbox"/> Not Applicable

### Ordering Samples:

Samples are available through Atmel Sample Center by logging on to [www.atmel.com/samples](http://www.atmel.com/samples). Contact your Atmel Sales Representative for details. Larger memory derivatives are electrically, physical as well as pin & code compatible with smaller memory counterparts and recommended for evaluation and qualification purposes. Samples of specific smaller memory derivatives will be made available throughout June directly in the Atmel Sample Center without further notice.

### Qualification Data:

Available Refer to Annex A     
  Will be available (mm/dd/yr):     
  Not Applicable Same as Rev A.

### Characterization Data:

Available Refer to Annex     
  Will be available (mm/dd/yr):     
  Not Applicable Same as Rev A.

### Method to Identify Change:

Top Marking (indicate details here)  
 Change in device variant letter from "A" to "B"  
 Example  
 Old device variant: ATSAM4E16EA-CN  
 New device variant: ATSAM4E16EB-CN

### Marking Change:

No       Yes Refer to chapter *Product Identification*

### Data Sheet:

To view Data sheet please go to [http://www.atmel.com/Images/Atmel-11157-32-bit-Cortex-M4-Microcontroller-SAM4E16-SAM4E8\\_Datasheet.pdf](http://www.atmel.com/Images/Atmel-11157-32-bit-Cortex-M4-Microcontroller-SAM4E16-SAM4E8_Datasheet.pdf)

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## Customer Acknowledgement of Receipt:

Atmel requests you acknowledge receipt of this PCN. Please complete and email to pcnadm@atmel.com and the Atmel Contact listed above. In your acknowledgement, you can grant approval or request additional information. **Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice.**

### To be completed by customer:

- Approved
- Rejected (Please state reason for rejection):

Company:

Name:

Title:

Date:

Email Address:

Location:

Comments: