

**PCN Number: RC131302A (Revised 02/20/15)**  
**See Changes in Blue Text**

**Notification Date\*:** April 9, 2013

**Title:** Migration of [ATSAM3S1](#) from Revision A to Revision B

**Product Identification:**

| EOL ordering code              | New ordering code              |
|--------------------------------|--------------------------------|
| ATSAM3S1AA-AU                  | ATSAM3S1AB-AU                  |
| ATSAM3S1AA-MU                  | ATSAM3S1AB-MU                  |
| ATSAM3S1BA-AU                  | ATSAM3S1BB-AU                  |
| ATSAM3S1BA-MU                  | ATSAM3S1BB-MU                  |
| ATSAM3S1CA-AU                  | ATSAM3S1CB-AU                  |
| ATSAM3S1CA-CU                  | ATSAM3S1CB-CU                  |
| <a href="#">ATSAM3S1AA-AUR</a> | <a href="#">ATSAM3S1AB-AUR</a> |
| <a href="#">ATSAM3S1AA-MUR</a> | <a href="#">ATSAM3S1AB-MUR</a> |
| <a href="#">ATSAM3S1BA-AUR</a> | <a href="#">ATSAM3S1BB-AUR</a> |
| <a href="#">ATSAM3S1BA-MUR</a> | <a href="#">ATSAM3S1BB-MUR</a> |
| <a href="#">ATSAM3S1CA-AUR</a> | <a href="#">ATSAM3S1CB-AUR</a> |
| <a href="#">ATSAM3S1CA-CUR</a> | <a href="#">ATSAM3S1CB-CUR</a> |

Devices in Tape & Reel will be also available in revision B. ([now listed in the table above](#))

**Reason for Change:**

- ☐ Material / Composition  
☒ Processing / Manufacturing

- ☒ Design / Firmware  
☐ Logistics

- ☒ [Manufacturing Location](#)  
☐ Quality / Reliability

**Change Description:**

A detailed description of the differences between the marketing revision level (MRL) A and B can be found in the data sheet.

In summary, changes are limited to the correction of the following errata:

- Correction of Flash problems :
  - o 45.2.1.1 FLASH: Flash Reading in 64-bit mode
  - o 45.2.1.3 FLASH: Flash Programming
  - o 45.2.1.4 FLASH: Fetching Error after Reading the Unique Identifier
- Correction ADC problems :
  - o 45.2.2.1 ADC: Comparison Window, High Threshold Value
  - o 45.2.2.2 ADC: End of Conversion (EOC) Flag
  - o 45.2.2.3 ADC: Trigger Launch Only One Conversion
  - o 45.2.2.4 ADC: Wrong First Conversions
- Correction SAMBA problem:
  - o 45.2.4.1 SAM-BA Boot: Start-up Issue when Using No Clock on XIN
- Jtag ID updated .

**The rev B is manufactured at UMC wafer fabrication facility.**

**Identification Method to Distinguish Change:**

Marketing Revision Level (MRL) has been incremented on top side marking to **B**.

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| <b>Qualification Data:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> Available | <input type="checkbox"/> Will be available (mm/dd/yr):                                           | <input type="checkbox"/> Not Applicable |
| <b>Samples:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Available            | <input checked="" type="checkbox"/> Will be available (mm/dd/yr):<br>April 10 <sup>th</sup> 2013 | <input type="checkbox"/> Not Applicable |
| <b>Quantifiable Impact on Quality &amp; Reliability:</b><br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                                                                  |                                         |
| <b>Forecasted Availability Date:</b> Delivery of Volume MRL B Product : June 1st, 2013<br><b>Last Time Buy Date:</b> September 25th, 2013<br><b>Last Ship Date:</b> March 25th, 2014<br><br><i>*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                                                                                  |                                         |
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