

**PRODUCT / PROCESS CHANGE NOTIFICATION (PCN)**

**PCN Number:** **WC165201**

**Notification Subject:** CRS 16-0590 Final Notice: Silicon revision change from A to B for ATSAMG55G19 device family.

**PCN Issue Date:** December 23, 2016

**Change Category:** Design

**PCN Status:** Final Notice

**Microchip/Atmel Parts Affected:** Please open the attachments included with this PCN labeled as PCN\_#\_Affected\_CPN.  
Note: for your convenience Microchip/Atmel includes identical files in two formats (.pdf and .xls)

**Description of Change:** Silicon revision change from A to B for ATSAMG55G19 device family.

**Pre Change:** Silicon Revision A: USB functionality limited to temperature 0C-70C range. ADC performance at high temperature not optimal. Sleep Walking wait mode, in some use cases, can cause system to deadlock.

**Post Change:** Silicon Revision B: USB is fully functional over -40C to 85C temperature range. ADC performance at high temperature has being improved. Using more than one wake-up event is possible, system remains functional. System deadlock as defined on errata of Silicon Revision A has being fixed.

**Pre and Post Change Summary:**

| Pre Change         | Post Change        |
|--------------------|--------------------|
| Silicon Revision A | Silicon Revision B |
| ATSAMG55G19A-UUT   | ATSAMG55G19B-UUT   |
| ATSAMG55J19A-AU    | ATSAMG55J19B-AU    |
| ATSAMG55J19A-AUT   | ATSAMG55J19B-AUT   |
| ATSAMG55J19A-MU    | ATSAMG55J19B-MU    |
| ATSAMG55J19A-MUT   | ATSAMG55J19B-MUT   |

**Impacts to Data Sheet:** New and revised data sheet will be released to include both Silicon Revision A and Silicon Revision B devices.

**Change Impact:** None

**Reason for Change:** Silicon Revision A errata fixed. New MPN is being created to reflect Die and marketing revision. Silicon Revision A and Silicon Revision B are pin to pin compatible.

**Change Implementation Status:** Complete

**Estimated First Ship Date:** April 01, 2017

Please be advised that after the estimated first ship date customers may receive pre and post change parts.

**Time Table Summary:**

|                                   | December 2016 |    |    |    |    | → | April 2017 |    |    |    |    |
|-----------------------------------|---------------|----|----|----|----|---|------------|----|----|----|----|
|                                   | 49            | 50 | 51 | 52 | 53 |   | 13         | 14 | 15 | 16 | 17 |
| Workweek                          |               |    |    |    |    |   |            |    |    |    |    |
| Qualification Report Availability |               |    |    | X  |    |   |            |    |    |    |    |
| Final PCN Issue Date              |               |    |    | X  |    |   |            |    |    |    |    |
| Estimated Implementation Date     |               |    |    |    |    |   | X          |    |    |    |    |

**Method to Identify Change:** Catalog Part Number

**Data Sheet:** To view the applicable data sheet please go to the [document library](#) found on [atmel.com](#)

**Revision History:** **December 23, 2016.** Issued final notification.

**Please contact your local [Microchip](#) or [Atmel](#) Sales Office or Distributor with questions or concerns regarding this notification.**