



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				
Workweek	49	50	51	52	53		13	14	15	16	17
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.

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Affected Catalog Part Numbers (CPN)

PCN_WC165201	
Current Catalog Part Number	New Catalog Part Number
ATSAMG55G19A-UUT	ATSAMG55G19B-UUT
ATSAMG55J19A-AU	ATSAMG55J19B-AU
ATSAMG55J19A-AUT	ATSAMG55J19B-AUT
ATSAMG55J19A-MU	ATSAMG55J19B-MU
ATSAMG55J19A-MUT	ATSAMG55J19B-MUT