

PCN Number: SC153806

Notification Date: September 23, 2015

Title: New Device Variant of 32kB and 64kB Flash versions for Atmel|SMART SAM D21

Product Identification:

32-pin packages

Old CPN	New CPN
ATSAMD21E15A-AF	ATSAMD21E15B-AF
ATSAMD21E15A-AFT	ATSAMD21E15B-AFT
ATSAMD21E15A-AU	ATSAMD21E15B-AU
ATSAMD21E15A-AUT	ATSAMD21E15B-AUT
ATSAMD21E15A-MF	ATSAMD21E15B-MF
ATSAMD21E15A-MFT	ATSAMD21E15B-MFT
ATSAMD21E15A-MU	ATSAMD21E15B-MU
ATSAMD21E15A-MUT	ATSAMD21E15B-MUT

Old CPN	New CPN
ATSAMD21E16A-AF	ATSAMD21E16B-AF
ATSAMD21E16A-AFT	ATSAMD21E16B-AFT
ATSAMD21E16A-AU	ATSAMD21E16B-AU
ATSAMD21E16A-AUT	ATSAMD21E16B-AUT
ATSAMD21E16A-MF	ATSAMD21E16B-MF
ATSAMD21E16A-MFT	ATSAMD21E16B-MFT
ATSAMD21E16A-MU	ATSAMD21E16B-MU
ATSAMD21E16A-MUT	ATSAMD21E16B-MUT

48-pin packages

Old CPN	New CPN
ATSAMD21G15A-AF	ATSAMD21G15B-AF
ATSAMD21G15A-AFT	ATSAMD21G15B-AFT
ATSAMD21G15A-AU	ATSAMD21G15B-AU
ATSAMD21G15A-AUT	ATSAMD21G15B-AUT

ATSAMD21G15A-MF	ATSAMD21G15B-MF
ATSAMD21G15A-MFT	ATSAMD21G15B-MFT
ATSAMD21G15A-MU	ATSAMD21G15B-MU
ATSAMD21G15A-MUT	ATSAMD21G15B-MUT

Old CPN	New CPN
ATSAMD21G16A-AF	ATSAMD21G16B-AF
ATSAMD21G16A-AFT	ATSAMD21G16B-AFT
ATSAMD21G16A-AU	ATSAMD21G16B-AU
ATSAMD21G16A-AUT	ATSAMD21G16B-AUT
ATSAMD21G16A-MF	ATSAMD21G16B-MF
ATSAMD21G16A-MFT	ATSAMD21G16B-MFT
ATSAMD21G16A-MU	ATSAMD21G16B-MU
ATSAMD21G16A-MUT	ATSAMD21G16B-MUT

64-pin packages

Old CPN	New CPN
ATSAMD21J15A-AF	ATSAMD21J15B-AF
ATSAMD21J15A-AFT	ATSAMD21J15B-AFT
ATSAMD21J15A-AU	ATSAMD21J15B-AU
ATSAMD21J15A-AUT	ATSAMD21J15B-AUT
ATSAMD21J15A-MF	ATSAMD21J15B-MF
ATSAMD21J15A-MFT	ATSAMD21J15B-MFT
ATSAMD21J15A-MU	ATSAMD21J15B-MU
ATSAMD21J15A-MUT	ATSAMD21J15B-MUT

Old CPN	New CPN
ATSAMD21J16A-AF	ATSAMD21J16B-AF
ATSAMD21J16A-AFT	ATSAMD21J16B-AFT
ATSAMD21J16A-AU	ATSAMD21J16B-AU
ATSAMD21J16A-AUT	ATSAMD21J16B-AUT
ATSAMD21J16A-MF	ATSAMD21J16B-MF
ATSAMD21J16A-MFT	ATSAMD21J16B-MFT
ATSAMD21J16A-MU	ATSAMD21J16B-MU
ATSAMD21J16A-MUT	ATSAMD21J16B-MUT

Reason for Change:

- | | |
|--|---|
| <input type="checkbox"/> Material / Composition | <input type="checkbox"/> Manufacturing Location |
| <input checked="" type="checkbox"/> Processing / Manufacturing | <input type="checkbox"/> Quality / Reliability |
| <input type="checkbox"/> Design / Firmware | <input type="checkbox"/> Logistics |
| <input type="checkbox"/> Datasheet | <input checked="" type="checkbox"/> Other: Errata fixes and added functionality |

Change Description: Optimized device variant B will replace current variant A order codes for SAM D21 products with 64kB and 32kB of Flash.

Device Variant B of the SAM D21 is hex compatible to device variant A if you do not want to enable any of the new improved features.

Changes compared to device variant A

- Read While Write programming support added
- The device Signature row is updated to reflect the new die revision
- Errata fixed compared to the latest die revision (rev. D) of device variant A. Please see datasheet for details in Errata section, Chapter 39 by referencing the errata numbers listed below
 - 13951
 - 12005
 - 13411
 - 14154
 - 12118
 - 12291
 - 12015
 - 12196
 - 10933
 - 11988
 - 12003
 - 12499
 - 12519
 - 12354
 - 12224
 - 12107
 - 12477
 - 12512
 - 12227
 - 11468
 - 12155
 - 12860

- New Errata not present in Device Variant A.
 - SYSTICK Calibration value is wrong. Errata Reference 14155. See datasheet for software workaround details.
- Change in die size, but no change in process geometry

Identification Method to Distinguish Change:

Top side marking, order codes, and labelling

Change in device variant letter from "A" to "B"

Example:

Old device variant: ATSAM21E15**A**-MUT

New device variant: ATSAM21E15**B**-MUT

On packages where space permits the A and B marking are also included in the top mark

Qualification Data:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable
Samples:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable

Quantifiable Impact on Quality & Reliability:

Forecasted Availability Date: December 23, 2015

Last Time Buy Date: March 23, 2016

Last Ship Date: September 23, 2016

**All orders placed after the notification date are non-cancellable and non-returnable (NCNR).*

Atmel Contact: Please contact your Atmel Sales Representative or Distributor for additional information (when replying via e-mail please include the PCN number in subject line).

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