

PCN Number: LC154701

Notification Date*: November 26, 2015

Title: New Die revision of Atmel|SMART Connect Wi-Fi Product Line

Product Identification:

StandAlone modules	IC
ATWILC1000-MR1100B	ATWILC1000B-MU-T
ATWILC1000-MR110UB	ATWILC1000B-MU-Y
ATWILC1000-MR110PB	ATWILC1000B-UU-T
ATWINC1500-MR210PB	ATWILC1000B-UU-Y
ATWINC1500-MR210UB	ATWINC1500B-MU-T
ATWINC1510-MR210PB	ATWINC1500B-MU-Y
ATWINC1510-MR210UB	ATWINC1510B-MU-T
ATSAMW25H18-MR210PB	ATWINC1510B-MU-Y
ATSAMW25H18-MR510PB	
ATSAMW25H18-MR510UB	

- 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 checked="" type="checkbox"/> Design / Firmware | <input type="checkbox"/> Logistics |
| <input type="checkbox"/> Datasheet | <input type="checkbox"/> Other: |

Change Description:

New die revisions for NMC1003 For the Atmel|SMART connect product family. The new variant B adds more memory space and power improvements.

RevA to RevB is P2P compatible (change 5 require different pull on RevB, connected to 1.3V)

DS update to RevB offering

Changes from WILC1000A to WILC1000B:

1. Added second UART, increased UART data rates
2. Increased instruction RAM size from 128KB to 160KB
3. Updated pin mux table: added new options for various interfaces
4. Improved description of Coexistence interface
5. Added VDD_VCO switch and connection in the power architecture
6. Updated power consumption numbers
7. Updated reference schematic
8. Changed RTC_CLK pad definition from pull-down to pull-up

Additional changes for WINC1500A to WINC1500B

9. Changed pin list to add GPIOs 3,4,5,6 - chip pinout identical WINC and WILC
10. Added hardware accelerators in feature list (SSL security, IP checksum, OTA security)

Identification Method to Distinguish Change:

Increment in device variant identifier in CPN from A to B

Old CPN	New CPN	Old CPN	New CPN
ATWILC1000-MR1100A	ATWILC1000-MR1100B	ATWILC1000A-MU-T	ATWILC1000B-MU-T
ATWILC1000-MR110PA	ATWILC1000-MR110PB	ATWILC1000A-MU-Y	ATWILC1000B-MU-Y
-	ATWILC1000-MR110UB	ATWILC1000A-UU-T	ATWILC1000B-UU-T
ATWINC1500-MR210PA	ATWINC1500-MR210PB	ATWILC1000A-UU-Y	ATWILC1000B-UU-Y
-	ATWINC1500-MR210UB	ATWINC1500A-MU-T	ATWINC1500B-MU-T
-	ATWINC1510-MR210PB	ATWINC1500A-MU-Y	ATWINC1500B-MU-Y
-	ATWINC1510-MR210UB		
ATSAMW25H18-MR210PA	ATSAMW25H18-MR210PB	ATWINC1510A-MU-T	ATWINC1510B-MU-T
ATSAMW25H18-MR510PA	ATSAMW25H18-MR510PB	ATWINC1510A-MU-Y	ATWINC1510B-MU-Y
-	ATSAMW25H18-MR510UB		

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: None**Forecasted Availability Date:** February 26, 2016**Last Time Buy Date:** May 26, 2016**Last Ship Date:** November 26, 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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