

PCN Number: HC151402

Notification Date: April 14, 2015

Title: Change of Assembly Location ATA664151									
Product Identification: ATA664151-WNQW									
Reason for Change:	☒ Material / Composition	☒ Manufacturing Location							
	☒ Processing / Manufacturing	☐ Quality / Reliability							
	☐ Design / Firmware	☐ Logistics							
	☒ Datasheet	☐ Other:							
Change Description: (1) In order to align its overall backend production strategy, ATMEL will introduce ASE Chung Li Taiwan as IC assembly subcontractors for automotive products. ASE Chungli Taiwan, has a long term experience as automotive assemblers, and is TS16949 certified and ATMEL qualified suppliers with existing business. The assembly of affected IC will be moved to ASE Chung Li Taiwan. Package comparison is available in the appendix. Marking will be changed from old ATMEL Logo to new ATMEL Logo (2) Change of Design Revision to improve System Level ESD Robustness (3) Datasheet change: <table border="1"> <thead> <tr> <th>Test / Parameter / Feature</th> <th>Original value</th> <th>New value</th> </tr> </thead> <tbody> <tr> <td>VCC regulator under-voltage detection hysteresis, P. 17.11</td> <td>Parameter 17.11 LL=190 / T=300 / UL=400mV</td> <td>Parameter 17.11 LL=120 / T=160 / UL=300mV</td> </tr> </tbody> </table>				Test / Parameter / Feature	Original value	New value	VCC regulator under-voltage detection hysteresis, P. 17.11	Parameter 17.11 LL=190 / T=300 / UL=400mV	Parameter 17.11 LL=120 / T=160 / UL=300mV
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Identification Method to Distinguish Change: Devices can be tracked by lot number and date code which is part of the package marking. New ordering code has been created by adding a suffix or by changing to the new package code to manage backlog conversion. <table border="1"> <thead> <tr> <th>Ordering code old</th> <th>Ordering code new</th> </tr> </thead> <tbody> <tr> <td>ATA664151-WNQW</td> <td>ATA664151-WNQW-1</td> </tr> </tbody> </table>				Ordering code old	Ordering code new	ATA664151-WNQW	ATA664151-WNQW-1		
Ordering code old	Ordering code new								
ATA664151-WNQW	ATA664151-WNQW-1								
Qualification Data:	☐ Available	☒ Will be available (mm/dd/yr): 04/24/2015	☐ Not Applicable						

Samples:	☒ Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable
Quantifiable Impact on Quality & Reliability: System level ESD Robustness will be improved.			
Forecasted Availability Date: 30 days after PPAP availability Target Backlog Conversion Date: 90 days after PPAP availability <i>*The Proposed First Ship Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.</i>			
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).			
<i>Information provided herein is in connection with Atmel products and this information is provided "AS IS". Atmel assumes no responsibility for any errors that may appear in this document. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Atmel's Terms and Conditions of Sale for such products, Atmel assumes no liability whatsoever, and Atmel disclaims any express or implied warranty, including liability or warranties relating to fitness for a particular purpose, merchantability, or non-infringement of any patent, copyright or other intellectual property right. Atmel products are not intended for use in a product or system intended to support or sustain life which, if it fails, can be reasonably expected to result in significant personal injury. Atmel may make changes to specifications and product descriptions at any time, without notice.</i>			

CUSTOMER ACKNOWLEDGEMENT OF RECEIPT: Atmel requests you acknowledge receipt of this PCN. Please complete and email to pcnadm@atmel.com and the Atmel Contact listed above. In your acknowledgement, you can grant approval or request additional information. **Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice.**

To be completed by customer:

☐ Approved

☐ Rejected (Please state reason for rejection): _____

Company:
Name:
Title:
Date:
Email
Address:
Location:
Comments:

Appendix

ATA664151 Package Comparison

Bill of material

Item	TSPIC	ASECL	Risk assessment
Mold compound	G770	G700	No risk, same family
Die attach	AB84-1LMIS	EN4900	No risk, both are silver filled epoxies
Die thickness	0,250 mm	0,178 mm	No Risk, standard die thickness at ASECL
Die Coating	Polyimide	No Polyimide	No risk, applied for many devices without impact
Lead frame material	C7025	C194	Low Risk, both are copper based materials.
Lead frame treatment	Rough copper	Rough copper	No Risk, same material
Lead frame plating	Ag (photo resist)	Ag (photo resist)	No Risk, same material
Bond wire material	Au	Au	No Risk, same material
Bond wire diameter	25 microns	25 microns	
Plating	Matte Sn	Matte Sn	Matte Sn

Main Outline dimensions

Item	TSPIC	ASECL
Package option	Wettable flanks	Wettable flanks
Package Thickness	0,8mm - 1.0mm	0,8mm - 0.9mm
Lead geometrie	identical	
Lead frame thickness	identical	
Exposed die pad	identical	