



Product Change Notification

PCN Number: QC153104

Notification Date: August 4, 2015

Title: ATMXT640T FIRMWARE UPDATE FROM v1.5.AA TO v1.6.AA						
Product Identification: ATMXT640T-CCU/-CCUR						
Reason for Change:						
☐ Material / Composition	☐ Manufacturing Location					
☐ Processing / Manufacturing	☐ Quality / Reliability					
☒ Design / Firmware	☐ Logistics					
☐ Datasheet	☐ Other:					
Change Description:						
As part of the continuous improvement process for the ATMXT640T product, performance enhancements were identified and implemented.						
Key updates;						
• Improved separation of fast alternate taps without compromising fast swipes • Improved edge linearity performance on single layer screens						
Firmware changes are detailed in <u>Attachment 1</u> below.						
The modifications in v1.6.AA are not all backwardly compatible with the previous release v1.5.AA.						
These enhancements have been implemented by releasing firmware v1.6.AA to production.						
Identification Method to Distinguish Change:						
Orderable part number has a new QS reference number (General customer release QS numbers shown. Contact your Atmel Sales Representative or Distributor for any customer specific reference numbers)						
Current Order Code (Firmware v1.5.AA)	New Order Code (Firmware v1.6.AA)					
MXT640T-CCU/-CCUR QS997	MXT640T-CCU/-CCUR Q1027					
Marking of device:						
As previous v1.5.AA release – No further changes.						
<table border="1"><tr><td>ATMEL</td></tr><tr><td>MXT640T</td></tr><tr><td>CCU</td></tr><tr><td>YYWW#X (YYWW = Date Code, # = Die Revision, X = Assembly Location)</td></tr><tr><td>LOTCODE</td></tr></table>		ATMEL	MXT640T	CCU	YYWW#X (YYWW = Date Code, # = Die Revision, X = Assembly Location)	LOTCODE
ATMEL						
MXT640T						
CCU						
YYWW#X (YYWW = Date Code, # = Die Revision, X = Assembly Location)						
LOTCODE						

Qualification Data:	☐ Available (<i>qualification data shall be attached if available</i>)	☐ Will be available (mm/dd/yr):	☒ Not Applicable
Samples:	☐ Available	☒ Will be available (mm/dd/yr): 08/15/15	☐ Not Applicable

Quantifiable Impact on Quality & Reliability:

No detrimental impact of quality or reliability between these firmware revisions

Proposed First Ship Date*: November 4, 2015

**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.*

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).

This Change Notification is subject to the terms of Atmel's Terms and Conditions of Sale for such products identified herein, which Terms and Conditions remain in full force and effect. 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.

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:

Attachment 1**Overview**

This table provides a summary of the changes related to MXT640T firmware release v1.6.AA from v1.5.AA

NEW FEATURES	Summary	Backward Compatible?
NF-1	Added new config fields to the T93 object to add the capability of reporting the Failure Reason in the object message.	N
NF-2	Implemented improvements in T80 for small touch re-transmission effects.	Y
NF-3	Implemented re-calibration support for single layer sensors.	Y
REMOVED FEATURES	Summary	Backward Compatible?
N/A	N/A	N/A
BEHAVIOURAL CHANGES	Summary	Backward Compatible?
BC-1	Improved the JUMPLIMIT behaviour to allow smaller values to be used without compromising fast swipes. Smaller values will allow improved separation of fast alternate taps.	Y
BC-2	Improved edge linearity performance on single layer sensors.	Y
BUG FIXES	Summary	Backward Compatible?
BF-1	Added capability to report T100 messages when HIDI2C interface is selected and T43 object is disabled.	Y
BF-2	Fixed an issue with T81 that could cause unlock gestures not to work along one edge of the longer screen axis (when T100 SWITCHXY was enabled and T100 X RANGE & Y RANGE were set to different values - e.g. to match the screen dimensions).	N