

PCN Number: QC153201**Notification Date: August 5, 2015****Title: ATMXT336S / ATMXT224S FIRMWARE REVISION CHANGE FROM v3.0.AB TO v3.1.AA****Product Identification: ATMXT336S / ATMXT224S -MAU/-MAUR & -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 ATMXT336S & ATMXT224S product, performance enhancements were identified and implemented.

Key Changes:

- The Self Test Object T25 has been updated so it can now detect the open pins fault with an external jig.

The modifications in v3.1.AA are all backwardly compatible with the previous release v3.0.AB as detailed in **Attachment 1** below.

These enhancements have been implemented by releasing firmware v3.1.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).

Product (OLD CODES)	FW v3.0.AB FAB Either	FW v3.0.AB FAB 5	FW v3.0.AB FAB MC
MXT336S-CCU/-CCUR MXT336S-MAU/-MAUR	QS784	QS796	QS795
MXT224S-CCU/-CCUR MXT224S-MAU/-MAUR	QS783	QS794	QS793

Product (NEW CODES)	FW v3.1.AA FAB Either	FW v3.1.AA FAB 5	FW v3.1.AA FAB MC
MXT336S-CCU/-CCUR MXT336S-MAU/-MAUR	Q1028	Q1071	Q1073
MXT224S-CCU/-CCUR MXT224S-MAU/-MAUR	Q1029	Q1072	Q1074

The MagnaChip die can be distinguished from the Colorado Fab5 die by mask rev-D (or later) and an "S"-prefix in the lot codes.

For example: lot SND1234 will be a manufacturing lot from MagnaChip. The mask revision and lot code are marked on the topside.

No changes to marking from v3.0.AB to v3.1.AA. Text remains as shown below:

Current marking MXT336S-MAU/-MAUR
ATMEL
MXT336S
MAU R (where R = Die Revision)
YYWW-Z (YYWW = Date Code) (where Z = Assembly Location)
LOTCODE

Current marking MXT336S-CCU/-CCUR
AT YYWWR (YYWW = Date Code) (where R = Die Revision)
MXT336S
CCU-K (where K = Assembly Location)
LOTCODE

Current marking MXT224S-MAU/-MAUR
ATMEL
MXT224S
MAU R (where R = Die Revision)
YYWW-Z (YYWW = Date Code) (where Z = Assembly Location)
LOTCODE

Current marking MXT224S-CCU/-CCUR
AT YYWWR (YYWW = Date Code) (where R = Die Revision)
MXT224S
CCU-K (where K = 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): 09/25/15	☐ Not Applicable

Quantifiable Impact on Quality & Reliability: No detrimental impact on quality or reliability between these firmware revisions.

Proposed First Ship Date*: November 7, 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 MXT336S and MXT224S firmware release v3.1.AA from v3.0.AB

NEW FEATURES	Summary	Backward Compatible?
	The "Self Test T25" object is updated to allow option of running an open pin fault test with externally grounded sensor pins. (For example, testing Flexible Circuit prior to bonding to Touchscreen).	Y
REMOVED FEATURES	Summary	Backward Compatible?
	NONE	N/A
BEHAVIOURAL CHANGES	Summary	Backward Compatible?
	NONE	N/A
BUG FIXES	Summary	Backward Compatible?
	NONE	N/A