

PCN Number: QC152401**Notification Date: June 23, 2015****Title: ATMXT112S Firmware Revision Change from v2.0.AA to v3.0.AA****Product Identification: ATMXT112S-MAU/-MAUR / ATMXT112S-MA5U/-MA5UR**

Reason for Change:

☐ Material / Composition	☐ Manufacturing Location
☐ Processing / Manufacturing	☐ Quality / Reliability
☒ Design / Firmware	☐ Logistics
☐ Datasheet	☐ Other:

Change Description:

As part of the continuous improvement of the mXT112S touchscreen driver IC. To address issues related to the market of wearable devices and in particular to round sensor designs, the following updates have been implemented in firmware v3.0.AA.

- Updated T40 Grip Suppression object to support circular sensor designs.
- Added T57 Extra Touchscreen Data object.
- Added support for the disable X-lines history feature to the T65 Lens Bending object to improve SNR.
- Removed T66 Golden Reference to allow for T57 to fit.
- Modified T65 Lens Bending object so that configuration data no longer causes automatic recalibration.

These improvements and enhancements have been implemented in releasing firmware v3.0.AA to production.

The changes in v3.0.AA are not all backwards compatible with v2.0.AA. See Table in [Attachment 1](#) for details.

Identification Method to Distinguish Change:

Orderable part numbers have new QS reference numbers:

Current Order Code (Firmware v2.0.AA)	New Order Code (Firmware v3.0.AA)
MXT112S-MAU/-MAUR; QS689	MXT112S-MAU/-MAUR; Q1021
MXT112S-MA5U/-MA5UR; QS689	MXT112S-MA5U/-MA5UR; Q1021

Marking of device:

No changes to marking from v2.0.AA to v3.0.AA. Text remains as shown below:

Current marking MXT112S-MAU/-MAUR
AT WWYY (WWYY = Date Code)
MXT112S
MAU# Z (# = Die Revision) (Z = Assembly Location)
LOT CODE

Current marking MXT112S-MA5U/-MA5UR
AT WWYY (WWYY = Date Code)
MXT112S
MA5U# Z (# = Die Revision) (Z = Assembly Location)
LOT CODE

Qualification Data:	☐ Available	☐ Will be available (mm/dd/yr):	☒ Not Applicable
Samples:	☐ Available	☒ Will be available (mm/dd/yr): 07/24/15	☐ Not Applicable
Quantifiable Impact on Quality & Reliability: No detrimental effect on product quality or reliability. Details of product functional performance as in Attachment 1			
Proposed First Ship Date*: September 23, 2015 <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).			
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To be completed by customer: ☐ <u>Approved</u> ☐ <u>Rejected (Please state reason for rejection):</u>	
Company: Name: Title: Date: Email Address: Location: Comments:	

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Attachment 1

Overview

This table provides a summary of the changes related to MXT112S firmware release v3.0.AA from v2.0.AA

NEW FEATURES	Summary	Backward Compatible?
	Updated T40 Grip Suppression object to support circular sensor designs	Y
	Added T57 Extra Touchscreen Data object	Y
	Added support for the disable X-lines history feature to the T65 Lens Bending object to improve SNR	Y
REMOVED FEATURES	Summary	Backward Compatible?
	Removed T66 Golden References object	N
BEHAVIOURAL CHANGES	Summary	Backward Compatible?
	Modifying T65 Lens Bending configuration data no longer causes automatic recalibration	N