Product Change Notification / RMES-20NCGX846

Date:

29-Oct-2020

Product Category:

Crypto Authentication

PCN Type:

Manufacturing Change

Notification Subject:

Memo # ML102020003S Information Notice: Introduction of new ATECC608B device family available in 3L CONTACT, 8L UDFN and 8L SOIC packages as replacement to an existing ATECC508A and ATECC608A device families that are currently available in DICE, WAFER, 3L CONTACT, 8L UDFN and 8L SOIC packages.

Affected CPNs:

RMES-20NCGX846_Affected_CPN_10292020.pdf
RMES-20NCGX846_Affected_CPN_10292020.csv

Notification Text:

PCN Status: Information notification

PCN Type: Manufacturing Change

Microchip Parts Affected: Please open one of the icons found in the Affected CPNs section above.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change: Introduction of new ATECC608B device family available in 3L CONTACT, 8L UDFN and 8L SOIC packages as replacement to an existing ATECC508A and ATECC608A device families that are currently available in DICE, WAFER, 3L CONTACT, 8L UDFN and 8L SOIC packages.

Microchip has setup the ATECC508A and ATECC608A as "not recommended for new designs" on

microchip.com. The newly launched ATECC608B is the recommended solution as it provides a few improvements.

Pre Change:
Device families ATECC508A and ATECC608A available in DICE, WAFER, 3L CONTACT, 8L UDFN and 8L SOIC packages

Post Change:
Device families ATECC608B available in 3L CONTACT, 8L UDFN and 8L SOIC packages

Pre and Post Change Summary:

	Pre Change	Post Change
Affected Device Families	ATECC508A and ATECC608A	ATECC608B
Package type	DICE, WAFER, 3L CONTACT,8L UDFN and 8L SOIC	3L CONTACT,8L UDFN and 8L SOIC
Device Comparison of ATECC508A and ATECC608B	Refer to Application Notes AN3539	
Device Comparison of ATECC608A and ATECC608B	Refer to Application Notes AN2237	

Note: Production support will continue for all ATECC508A and ATECC608A for existing customers

Impacts to Data Sheet: None. Refer to this link for ATECC608B datasheet.

Change Impact: None

Reason for Change: The ATECC608B provides its users with a chance to implement some enhanced functional security features to improve their overall system security and performance.

Also, the new ATECC608B fixes a bug in the I2C performances present on both the ATECC508A and ATECC608A occurring at low frequency when multiple devices are on the bus. It will improve physical protection against physical attacks.

Change Implementation Status: In Progress

New products availability date: *October 20, 2020 (date code: 2043) – For 3L CONTACT and 8L UDFN package
*October 31, 2020 (date code: 2044) – For 8L SOIC package

Note: See attachments section for the list of product availability per catalog part number in Affected_CPN list.

Time Table Summary:

	October 2020				
Workweek	40	41	42	43	44
Final PCN Issue Date				X	
Qual Report Availability				X	
* Earliest date the new products availability				See products availability date above and identified in affected CPN list	

Method to Identify Change: Traceability code

Qualification Report: Please open the attachments included with this PCN labeled as PCN_#_Qual_Report.

Revision History: October 20, 2020: Issued Information notification. Attached is the qualification report and added new products availability date.
October 23, 2020: Re-issued information notification. Updated the PCN number of qualification report.
October 29, 2020: Re-issued information notification to align the products availability date in PCN letter and Affected_CPN list for 3L CONTACT and 8L UDFN package from October 19 to October 20, 2020.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachments:

PCN_RMES-20NCGX846_Affected_CPN.pdf
PCN_RMES-20NCGX846_Affected_CPN.xlsx
PCN_RMES-20NCGX846_Qual_Report.pdf

Please contact your local Microchip sales office with questions or concerns regarding this notification.

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