

Product Change Notification - KSRA-03ZIHL277

Date:

26 Mar 2020

Product Category:

8-bit Microcontrollers

Affected CPNs:

Notification subject:

CCB 4100 Final Notice: Qualification of MTAI as an additional final test site for selected Atmel ATMEGA64x, ATMEGA128x, ATMEGA169x and ATMEGA329x device families available in 64L TQFP (14x14x1.0mm) packages.

Notification text:
PCN Status:

Final 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:

Qualification of MTAI as an additional final test site for selected Atmel ATMEGA64x, ATMEGA128x, ATMEGA169x and ATMEGA329x device families available in 64L TQFP (14x14x1.0mm) packages.

Pre Change:

Tested at LPI and ASE9 final test site.

Post Change:

Tested at LPI, ASE9 and MTAI final test site

Pre and Post Change Summary:

		Pre Change		Post Change		
Final Test Site		Lingsen Precision Industries, LTD. / LPI	ASE Test / ASE9	Lingsen Precision Industries, LTD. / LPI	ASE Test / ASE9	Microchip Technology Thailand (HQ) / MTAI
Base Quantity Multiple (BQM)	Tray	90	90	90	90	90
	Tape and Reel	1000	1000	1000	1000	1000
Pin1 Orientation		Quadrant 1	Quadrant 1	Quadrant 1	Quadrant 1	Quadrant 1
Carrier Tape		See attached Pre and Post comparison				
Plastic Reel		See attached Pre and Post comparison				
Tray		See attached Pre and Post comparison				
Plastic Reel Dimension		See attached Pre and Post comparison				
Other Packing Information		See attached Pre and Post comparison				

Impacts to Data Sheet:

None



Change Impact:

None

Reason for Change:

To improve on-time delivery performance by qualifying MTAI as an additional Final Test site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

April 23, 2020 (date code: 2017)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Time Table Summary:

	February 2020					March 2020				April 2020				
Workweek	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Initial PCN Issue Date		X												
Qual Report Availability									X					
Final PCN Issue Date									X					
Estimated Implementation Date													X	

Method to Identify Change:

Traceability code

Qualification Report:

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

Revision History:

February 03, 2020: Issued initial notification.

March 23, 2020: Issued final notification. Attached is the qualification report and added the estimated first date by April 23, 2020.

March 26, 2020: Re-issued final notification. Corrected the package type from QFN to TQFP. The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachment(s):

[PCN_KSRA-03ZIHL277_Qual_Report.pdf](#)

[PCN_KSRA-03ZIHL277_Pre_and_Post_Change_Summary.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to [receive Microchip PCNs via email](#) please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

If you wish to [change your PCN profile, including opt out](#), please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

ATMEGA128A-AU
ATMEGA128A-AUR
ATMEGA64A-AU
ATMEGA64A-AUR
ATMEGA329PA-AU
ATMEGA329PA-AUR
ATMEGA169PA-AU
ATMEGA169PA-AUR



MICROCHIP

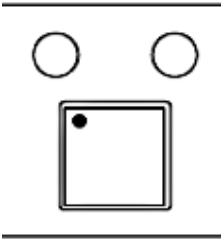
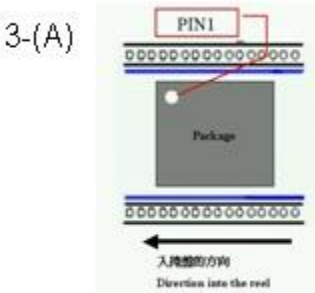
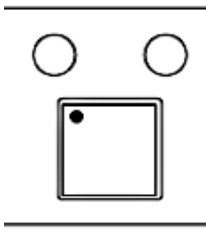
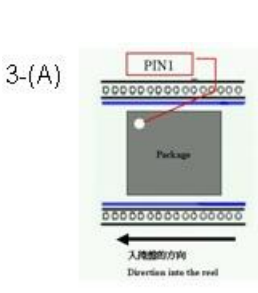
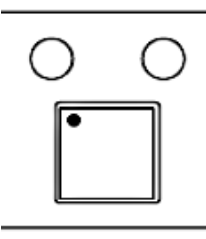


A Leading Provider of Microcontroller,
Mixed-Signal, Analog & Flash-IP Solutions


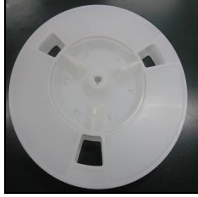

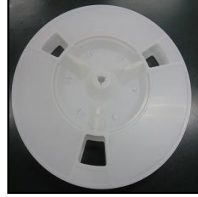









CCB 4100_ Pre and Post Change Summary
PCN# KSRA-03ZIHL277

















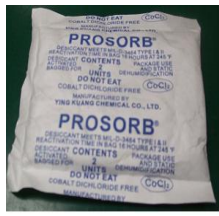




Pre and Post Change

		Pre Change		Post Change		
Final Test Site		Lingsen Precision Industries, LTD. / LPI	ASE Test / ASE9	Lingsen Precision Industries, LTD. / LPI	ASE Test / ASE9	Microchip Technology Thailand (HQ) / MTAI
Base Quantity Multiple (BQM)	Tray	90	90	90	90	90
	Tape and Reel	1000	1000	1000	1000	1000
Pin1 Orientation		<p>Quadrant 1</p>  <p>Index in Quadrant 1</p>	<p>Quadrant 1</p> <p>3-(A)</p>  <p>Index in Quadrant 1</p>	<p>Quadrant 1</p>  <p>Index in Quadrant 1</p>	<p>Quadrant 1</p> <p>3-(A)</p>  <p>Index in Quadrant 1</p>	<p>Quadrant 1</p>  <p>Index in Quadrant 1</p>











Pre and Post Change

	Pre Change		Post Change		
	LPI	ASE9	LPI	ASE9	MTAI
Carrier Tape	W: 32 mm P1: 24 mm A0: 16.2 mm B0: 16.20 mm K0: 2.10 mm K1: 1.5 mm	W: 32 mm P1: 24mm A0: 17 mm B0: 17mm K0: 2.1 mm K1: 1.4 mm	W: 32 mm P1: 24 mm A0: 16.2 mm B0: 16.20 mm K0: 2.10 mm K1: 1.5 mm	W: 32 mm P1: 24mm A0: 17 mm B0: 17mm K0: 2.1 mm K1: 1.4 mm	W: 24 mm P1: 20 mm A0: 16.50 mm B0: 16.50 mm K0: 1.55 mm K1: 1.20 mm
Plastic Reel	Color: white D: 330 mm Hub: 102 ±2mm W1: 16.40 mm (+2.00/-0.00) W2: 19.1mm 	Color: white D: 330 mm Hub: 181.5mm W1: 16.40 mm (+3.00/-2.00) W2: 19.1 Max 	Color: white D: 330 mm Hub: 102 ±2mm W1: 16.40 mm (+2.00/-0.00) W2: 19.1mm 	Color: white D: 330 mm Hub: 181.5mm W1: 16.40 mm (+3.00/-2.00) W2: 19.1 Max 	Color: Dark Blue D: 330 Hub: 4 inch (100mm) W1: 24.40 mm (+2.00/-0.00) W2: 30.40 Max 
Tray	Row: 6 Col: 15 Pocket on Tray: 90 (BQM) Tray Stack: 10 + 1 (10 + Cover) 	Row: 6 Col: 15 Pocket on Tray: 90 (BQM) Tray Stack: 10 + 1 (10 + Cover) 	Row: 6 Col: 15 Pocket on Tray: 90 (BQM) Tray Stack: 10 + 1 (10 + Cover) 	Row: 6 Col: 15 Pocket on Tray: 90 (BQM) Tray Stack: 10 + 1 (10 + Cover) 	Bake Tray Row: 6 Col: 15 Pocket on Tray: 90 (BQM) Tray Stack: 10 +1 (10 + Cover)  MSL-1 (Non Bake Assy MMT) Rol: 6 Col: 15 Pocket on Tray: 90 (BQM) Tray Stack: 10+1 (10 + Cover) 

Pre and Post Change

		Pre Change		Post Change		
		LPI	ASE9	LPI	ASE9	MTAI
Antistatic Shielding Bag / Moisture Barrier Bag	Tray	 <p>TRAY 鋁箔袋 (300*570*0.17) 料號: 56A04500100</p>  <p>TRAY 金屬袋 260*500*0.09 料號: 56A0202600</p>	 <p>495Xmm430mmX0.18mm</p>	 <p>TRAY 鋁箔袋 (300*570*0.17) 料號: 56A04500100</p>  <p>TRAY 金屬袋 260*500*0.09 料號: 56A0202600</p>	 <p>495Xmm430mmX0.18mm</p>	 <p>280x560 mm (MSL-3 and MSL-1)</p> 
	Tape and Reel	<p>料號: 56A0203800(392*430*0.1mm) 金屬袋</p>  <p>料號: 56A04800100 鋁箔袋 420*480mm*01(有靜電防靜電Logot)</p> 	 <p>510mmX280mmX0.18mm</p>	<p>料號: 56A0203800(392*430*0.1mm) 金屬袋</p>  <p>料號: 56A04800100 鋁箔袋 420*480mm*01(有靜電防靜電Logot)</p> 	 <p>510mmX280mmX0.18mm</p>	 <p>370 x 440 mm (MSL-3 and MSL-1)</p> 
Desiccant		<p>2 unit x 1 pcs per MBB bag</p> 	<p>2UNITS X 2 Per MBB bag</p> 	<p>2 unit x 1 pcs per MBB bag</p> 	<p>2UNITS X 2 Per MBB bag</p> 	<p>1 unit x 2 pcs per MBB bag for MSL-2, 3</p> 

Pre and Post Change

		Pre Change		Post Change		
		LPI	ASE9	LPI	ASE9	MTAI
Carton Box	Tray	430 x 390 x 190 mm 	(4 in 1) 390mmx365mmx385mm 	430 x 390 x 190 mm 	(4 in 1) 390mmx365mmx385mm 	370 x 380 x 110 mm (2 inner box per 1 outer box) 
	Tape and Reel	370 x 390 x 390mm 	(8 in 1) 660mmx405mmx385mm 	370 x 390 x 390mm 	(8 in 1) 660mmx405mmx385mm 	370 x 380 x 110 mm (1 inner box per 1 outer box) 



QUALIFICATION REPORT SUMMARY

PCN #: KSRA-03ZIHL277

Date
March 13, 2020

Qualification of MTAI as an additional final test site for selected Atmel ATMEGA64x, ATMEGA128x, ATMEGA169x and ATMEGA329x device families available in 64L TQFP (14x14x1.0mm) packages.

Purpose: Qualification of MTAI as an additional final test site for selected Atmel ATMEGA64x, ATMEGA128x, ATMEGA169x and ATMEGA329x device families available in 64L TQFP (14x14x1.0mm) packages.

CCB No.: 4100

Test / Evaluation	Test Conditions / Parameters	Remarks
Datalog / Bin Comparison	<ul style="list-style-type: none"> • Compare test numbers, test names, test limit, test sequence, bin assignments & pass/fail results. • Accept if all match or justify the differences 	PASSED
Site by site verification	<ul style="list-style-type: none"> • Verifies the channel map has the correct site assignments and tester/handler communication work correctly 	PASSED
Correlation lot report	<ul style="list-style-type: none"> • Yield at each step and reject analysis between systems. 5K units are tested for each program conversion we perform. • Accept on yield match within 1% 	PASSED
Unit to unit parametric correlation	<ul style="list-style-type: none"> • A full assembly strip characterized on both systems and graphed vs each other & the data sheet limits 	PASSED
Test stability	<ul style="list-style-type: none"> • 50 loop test performed with no datalog delays • Accept on 0 fails 	PASSED
Parametric test stability verification	<ul style="list-style-type: none"> • Use Real Time Statistics software to create report of all parametric tests 	PASSED