

Product Change Notification / JAON-21NAGG091

Date:			

09-May-2022

Product Category:

Wireless Modules

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3007.003 Final Notice: Qualification of MPHL as an additional final test site for selected Atmel ATSAMR21G16A, ATSAMR21G17A, and ATSAMR21G18A device families available in 48L VQFN (7x7x1mm) package.

Affected CPNs:

JAON-21NAGG091_Affected_CPN_05092022.pdf JAON-21NAGG091_Affected_CPN_05092022.csv

Notification Text:

PCN Status:Final Notification

PCN Type:Manufacturing Change

Microchip Parts Affected:Please open one of the files found in the Affected CPNs section. Note: For your convenience Microchip includes identical files in two formats (.pdf and .xls)

Description of Change:Qualification of MPHL as an additional final test site for selected Atmel ATSAMR21G16A, ATSAMR21G17A, and ATSAMR21G18A device families available in 48L VQFN (7x7x1mm) package.

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Pre Change	Post Change
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Final Test Site		Amkor Technology Amkor Technology Philippines (P3/P4), Philippines (P3/P4), INC (ATP7) INC (ATP7)		Microchip Technology Operations (Philippines) Corporation (MPHL)		
Base Tape and Reel		4000	4000	4000		
Multiple (BQM)	Tray	416	416	416		
Pin	Tape and Reel	Quadrant 1	Quadrant 1	Quadrant 1		
Orientation	Tray	Chamfer Side	Chamfer Side	Chamfer Side		
_		Black	Black	Black		
Ira	ay Color	See pre and post change comparison.				
Car	rier tape	No dimensional changes. See pre and post change comparison.				
Cov	ver Tape	No dimensional changes. See pre and post change comparison.				
	Reel	See pre and post change comparison.				
Desiccant and HIC		See pre and post change comparison.				
	rrier Bag Packing rocess	See pre and post change comparison.				
Carto	n/Pizza box	Minor dimensional changes. See pre and post change comparison.				

Impacts to Data Sheet:None

Change ImpactNone

Reason for Change:To improve manufacturability and on-time delivery performance by qualifying MPHL as an additional final test site.

Change Implementation Status:In Progress

Estimated First Ship Date:June 3, 2022 (date code: 2223)

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

Time Table Summary:

		Jur	ne 20	21		^	ı	May	2022	2		Ju	ne 20	022	
Workweek	2	24	2 5	2 6	2 7		1 9	2 0	2 1	2	23	24	2 5	26	27
Initial PCN Issue Date				х											
Qual Report Availability								х							
Final PCN Issue Date								х							
Estimated Implementation Date											х				

Method to Identify Change:Traceability code

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

Revision History:

June 22, 2021: Issued initial notification.

May 9, 2022: Issued final notification. Attached the Qualification Report. Provided estimated first ship date to be on June 3, 2022.

Attachments:

PCN_JAON-21NAGG091_Pre and Post Change_Summary.pdf PCN_JAON-21NAGG091_Qual_Report.pdf

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

Terms and Conditions:

If you wish to <u>receive Microchip PCNs via email</u> 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.



QUALIFICATION REPORT SUMMARY

PCN #: JAON-21NAGG091

Date April 21, 2022

Qualification of MPHL as an additional final test site for selected Atmel ATSAMR21G16A, ATSAMR21G17A, and ATSAMR21G18A device families available in 48L VQFN (7x7x1mm) package.

Purpose: Qualification of MPHL as an additional final test site for selected Atmel

ATSAMR21G16A, ATSAMR21G17A, and ATSAMR21G18A device families

available in 48L VQFN (7x7x1mm) package.

CCB No.: 3007.003

Test / Evaluation	Test Conditions / Parameters	Results
Original Final Test Site Correlation	Run 5,000 untested devices from 1 lot for Commercial/Industrial, using the first insertion final test program at the current final test site and keep the good devices and rejects separate by bins.	Passed
Original Final Test Site Characterization	Characterize minimum of 33 good devices using the production test program with DC items and measurable functional test items which are specified in the product datasheet (ex. Tce, Icc, Isb, Vih, Vil, Voh, Vol) and send these devices to the destination final test site.	Passed
Datalog Comparison at Destination Final Test Site	Collect single site good and open socket datalogs on original and destination testers. Compare test number, test name, test sequence, test limits and Pass/Fail result. Accept if all parameters are matched or explainable.	Passed
Site by Site Verification at Destination Final Test Site	To verify that the test site mapping of new load board is correct and the communication between Tester and handler works correctly.	Passed
Test Stability Verification at Destination Final Test Site	Run 1 touch-down with full sites testing at the destination site for 50 loops without datalog at each insertion. Accepted on 0 failure or explainable.	Passed
Destination Final Test Site Characterization	Re-characterize the same 33 good devices or all devices that were collected characterized data from the original test site using new program and hardware for DC items collected. The results will be accepted if the variance within ± 10% of the measured values from the original test site.	Passed
Destination Final Test Site Correlation	Send 5,000 tested devices from 1 lot for Commercial/Industrial. The results need 100% correlation. To ensure that correction result	Passed
Destination Final Test Site Cross Correlation	Run 33 untested devices from the destination site with same FT program; keep the good devices and rejects separate by bins and send all devices to the original site for correlation. Re-test those devices from destination site bin- by-bin to the original site final test program for correlation.	Passed

CCB 3007.003 Pre and Post Change Summary PCN# JAON-21NAGG091



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		Pre Change	Post Change		
Final Test Location		Amkor Technology Philippines (P3/P4), INC (ATP7)	Microchip Technology Operations (Philippines) Corporation (MPHL)		
Packing Media		Tape and Reel / Tray	Tape and Reel / Tray		
Base Quantity	Tape and Reel	4000	4000		
Multiple (BQM)	Tray	416	416		
Pin 1 Orientation	Tape and Reel	Quadrant 1	Quadrant 1		
Officiation	Tray	Chamfer side	Chamfer side		
		Black	Black		
Tray Co	lor				



		P	re Change	e / ATP7	Post Change /MPHL		
Carrier	Dimensions	Width: 16	Pitch: 12	Length: 410	Width: 16	Pitch: 12	Length: 410
Tape (mm)	Color		Black	(Black		
Cove	r Tape Width		13.3 m	ım	13.3 mm		
	White			White			
R	Reel Color						



		Pre Change / ATP7	Post Change /MPHL		
	Tape and Reel	1 unit	DANATIONS DATE OF THE PROPERTY OF THE PROPERT		
Desiccant	Tray	1 unit	The state of the s		



		Pre Change / ATP7	Post Change /MPHL
IIIC	Tape and Reel	HIC, COBALT-FREE HIC 5/10/60	HIC, COBALT-FREE HIC 5/10/60
HIC	Tray	HIC, COBALT-FREE HIC 5/10/60	HIC, COBALT-FREE HIC 5/10/60

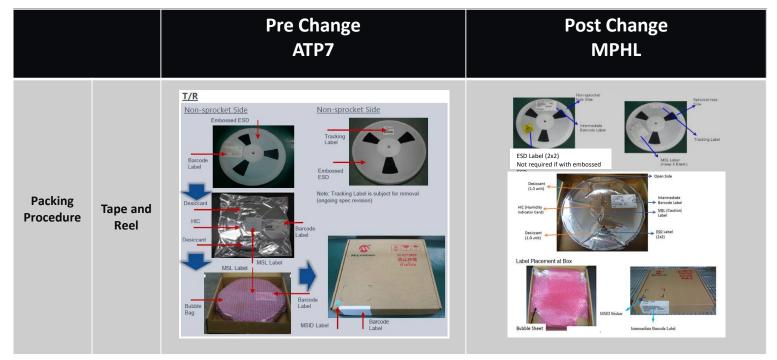


		Pre Change / ATP7	Post Change /MPHL
Moisture Barrier Bag Dimension	Tape and Reel	MOISTURE BARRIER BAG (18in x 18in)	MBB (406mm x 457 mm)
	Tray	MBB 10" X 20" 7.0 MILS W/ ESD LOGO PRINT	MBB (228mm x 483mm)

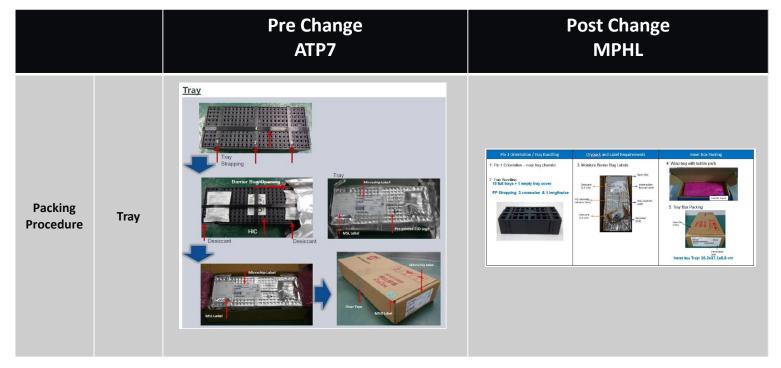


		Pre Change / ATP7	Post Change /MPHL
Carton	Tape and Reel		BOX, 375mm x 352mm x 53mm
Вох	Tray	BOX, 16.2cm x 37.1cm x 8.8cm Microchip Label Clear Tape MSID Label	Inner Box Tray 16.2cm x 37.1cm x 8.8 cm Open Side of Box Intermediate Label











JAON-21NAGG091 - CCB 3 ATSAMR21 and ATSAMR21G18A device families available in 48L VQFN (7x7x1mr

Affected Catalog Part Numbers(CPN)

ATSAMR21G16A-MF

ATSAMR21G17A-MF

ATSAMR21G18A-MF

ATSAMR21G16A-MU

ATSAMR21G17A-MU

ATSAMR21G18A-MU

ATSAMR21G16A-MUT

ATSAMR21G17A-MUT

ATSAMR21G18A-MUT

ATSAMR21G18A-MUTA6

ATSAMR21G16A-MFT

ATSAMR21G17A-MFT

ATSAMR21G18A-MFT