

Product Change Notification / JAON-21NAGG091

D	a	t	ρ	•
u	a	L	c	

22-Jun-2021

Product Category:

Wireless Modules

PCN Type:

Manufacturing Change

Notification Subject:

CCB 3007.003 Initial 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_06222021.pdf JAON-21NAGG091_Affected_CPN_06222021.csv

Notification Text:

PCN Status: Initial 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.

Pre Change: Tested at ATP7 final test site.

Post Change:

Tested at ATP7 final test site or tested at MPHL final test site.

		Pre Change Post Change				
Final Test Site		Amkor Technology Amkor Technology Philippines (P3/P4), Philippines (P3/P4), INC (ATP7) INC (ATP7)		Microchip Technology Operations (Philippines) Corporation (MPHL)		
Base Quantity	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		
	ou Colon	Black	Black	Black		
l ra	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.				
1	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 Impact:None

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 Qualification Completion Date: July 2021

Note: Please be advised the qualification completion times may be extended because of unforeseen business conditions however implementation will not occur until after qualification has completed and a final PCN has been issued. The final PCN will include the qualification report and estimated first ship date. Also note that after the estimated first ship date

guided in the final PCN customers may receive pre and post change parts.

Time Table Summary:

		June 2021			July 2021				
Workweek	23	24	25	26	27	28	29	30	31
Initial PCN Issue Date				Х					
Qual Report Availability									х
Final PCN Issue Date									Х

Method to Identify Change: Traceability code

Qualification Plan: Please open the attachments included with this PCN labeled as PCN_#_Qual Plan.

Revision History:June 22, 2021: Issued initial notification.

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

Attachments:

PCN_JAON-21NAGG091_Pre and Post Change_Summary.pdf PCN_JAON-21NAGG091_Qual_Plan.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 <u>PCN</u> home page select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the <u>PCN FAQ</u> section.

If you wish to <u>change your PCN profile</u>, <u>including opt out</u>, please go to the <u>PCN home page</u> select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

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



A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



		Pre Change	Post Change
Final Test Location		Amkor Technology Philippines (P3/P4), INC (ATP7)	Microchip Technology Operations (Philippines) Corporation (MPHL)
Packing N	1edia	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 Color			



		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		Blaci	(Black	
Cove	r Tape Width	13.3 mm			13.3 mm		
		White			White		
Reel Color							



		Pre Change / ATP7	Post Change /MPHL
	Tape and Reel	1 unit	A Wannos A Wann
Desiccant	Tray	1 unit	ALLEGATIONS ACTION OF THE PROPERTY OF THE PRO



		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

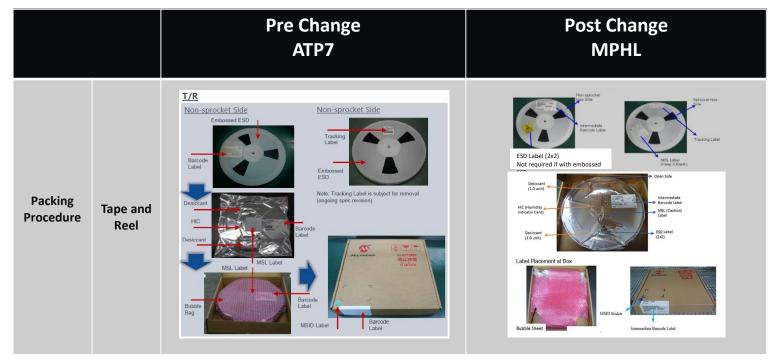


		Pre Change / ATP7	Post Change /MPHL
Tape and Reel Moisture		MOISTURE BARRIER BAG (18in x 18in)	MBB (406mm x 457 mm)
Barrier Bag Dimension	Tray	MBB 10" X 20" 7.0 MILS W/ ESD LOGO PRINT	MBB (228mm x 483mm)

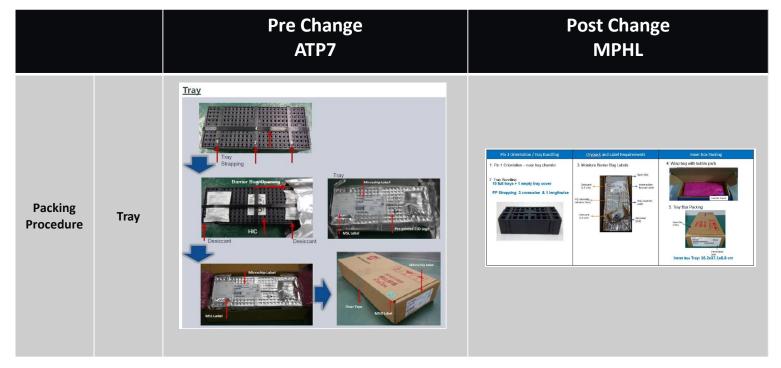


		Pre Change / ATP7	Post Change /MPHL
Carton	Tape and Reel	BOX, 37cm x 35.1cm x 5.3cm	BOX, 375mm x 352mm x 53mm
Вох	Tray	BOX, 16.2cm x 37.1cm x 8.8cm Microchip Label MSID Label	Inner Box Tray 16.2cm x 37.1cm x 8.8 cm Open Side of Box University County State of Box State













QUALIFICATION PLAN SUMMARY

PCN #: JAON-21NAGG091

Date June 21, 2021

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
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.
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.
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.
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.
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.
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.
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
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.

JAON-21NAGG091 - CCB 3007.003 In ATSAMR21 and ATSAMR21G18A device families available in 48L VQF

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