

Product Change Notification / MFOL-07FWW0646

Date:

16-Mar-2022

Product Category:

32-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 5049 Final Notice: Qualification of MPHL as an additional final test site for selected ATSAML22J1xx and ATSAML22N1xx device families available in 64L (10X10X1mm) and 100L (14X14X1mm) TQFP packages.

Affected CPNs:

MFOL-07FWW0646_Affected_CPN_03162022.pdf MFOL-07FWW0646_Affected_CPN_03162022.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 ATSAML22J1xx and ATSAML22N1xx device families available in 64L (10X10X1mm) and 100L (14X14X1mm) TQFP packages.

Pre and Post Change Summary:

		Pre Change	Post Change			
Final Test Site			ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation	
Base	64L	Tray	160	160	(MPHL) 160	
Quantity	TQFP	T/R	1500	1500	1500	
Multiple (BQM)	100L		1000	1000	1000	
Pin 1	100L TQFP	T/R	Ouedrant 1	Quadrant 1	Quadrant 1	
Orientation	64L TQFP	T/R	Quadrant 1			
Terrered	Tape and Color		13″	13″	13"	
Reel			White	White	White	
кееі	Mate	erial	Plastic	Plastic	Plastic	
Carrier Tape	Corrier Tono 64L TQFP		No dimensional changes. See Pre and Post comparison.			
Carrier rape	100L	TQFP	See Pre and Post comparison.			
Cover Tape	Cover Tape 64L TQFP 100L TQFP		See Pre and Post comparison.			
Desiccant		See Pre and Post comparison.				
Bag for T/R			See Pre and Post comparison.			
Box T/R Tray		See Pre and Post comparison.				
		See Pre and Post comparison.				
Bags for	64L TQFP		See Pre and Post comparison.			
Tray	100L	TQFP	Not Applicable.			
Packing T/R		See Pre and Post comparison.				
method Tray						

Impacts to Data Sheet:None

Change Impact:None

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

Change Implementation Status: In Progress

Estimated First Ship Date: April 18, 2022 (date code: 2217)

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

Time Table Summary:

	March 2022			April 2022					
Workweek	10	11	12	13	14	15	16	17	18
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:March 16, 2022: Issued final 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_MFOL-07FWW0646_Pre and Post summary.pdf PCN_MFOL-07FWW0646_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 <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.



PCN #: MFOL-07FWWO646

Date: February 16, 2022

Qualification of MPHL as an additional final test site for selected ATSAML22J1xx and ATSAML22N1xx device families available in 64L (10X10X1mm) and 100L (14X14X1mm) TQFP packages. Purpose: Qualification of MPHL as an additional final test site for selected ATSAML22J1xx and ATSAML22N1xx device families available in 64L (10X10X1mm) and 100L (14X14X1mm) TQFP packages.

CCB No.: 5049

Test / Evaluation	Test / Evaluation	Result
Loadboard and Test Program Validation	 FT@25°C: All 16 Sites Pass All Tests QC@25°C: All 16 Sites Pass All Tests 	Passed
Site by Site Verification	 Verify test site mapping of New LB (Channel Map) is correct. Verify communication between Tester and handler works correctly 	Passed
Lot Cross Correlation	 Test 1 lot each 64L and 100L TQFP in MPHL. Accept on >98% yield and OS <0.5%. 	Passed

Final CCB# 5049 PCN# MFOL-07FWW0646

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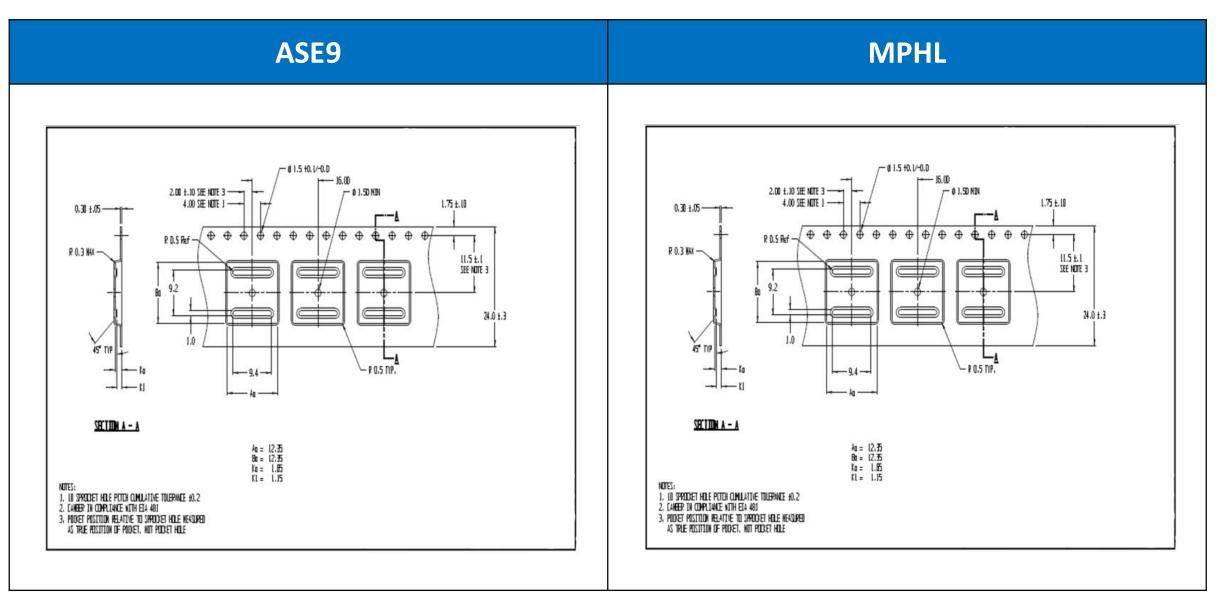


Pre and Post Summary – Base Quantity Multiple (BQM) and Pin 1 Orientation

PACKAGE			PRE CHANGE	POST CHANGE	
Final test site		ASE Test (ASE9)	ASE Test (ASE9)	Microchip Technology Operations (Philippines) Corporation (MPHL)	
	Base Quantity I	Multiple (BQM)	1000	1000	1000
100L TQFP	Pin 1 Orientation	T/R	Quadrant 1	Quadrant 1	Quadrant 1
	Base Quantity	T/R	1500	1500	1500
64L TQFP	Multiple (BQM)	Tray	160	160	160
	Pin 1 Orientation	T/R	Quadrant 1	Quadrant 1	Quadrant 1

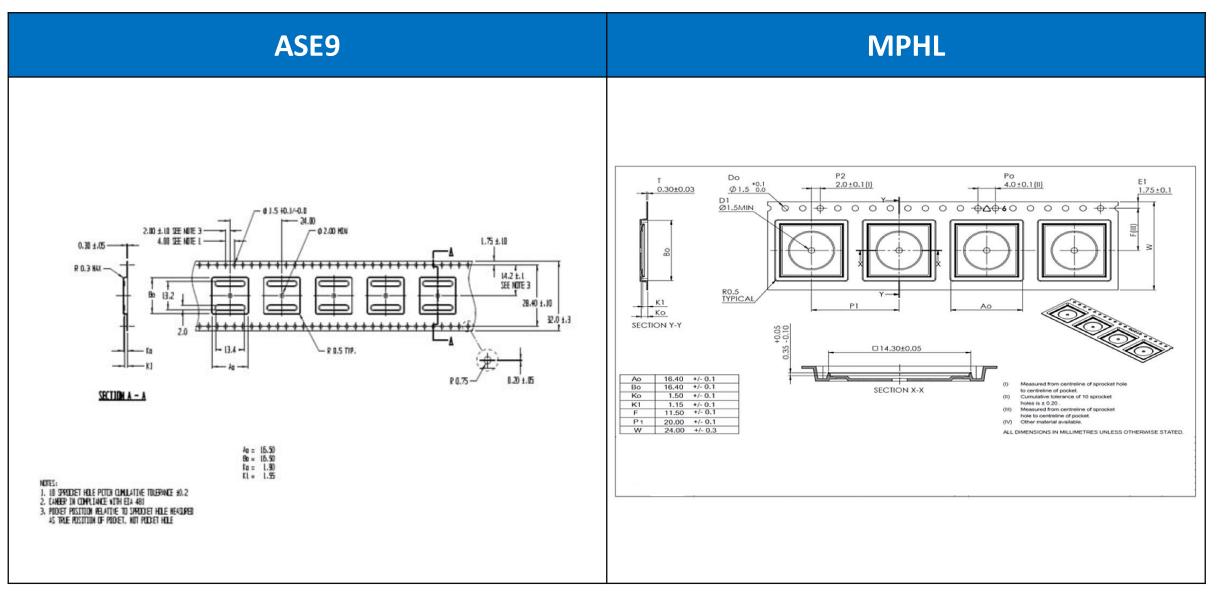


Pre and Post Change Summary - Carrier Tape (64L TQFP)



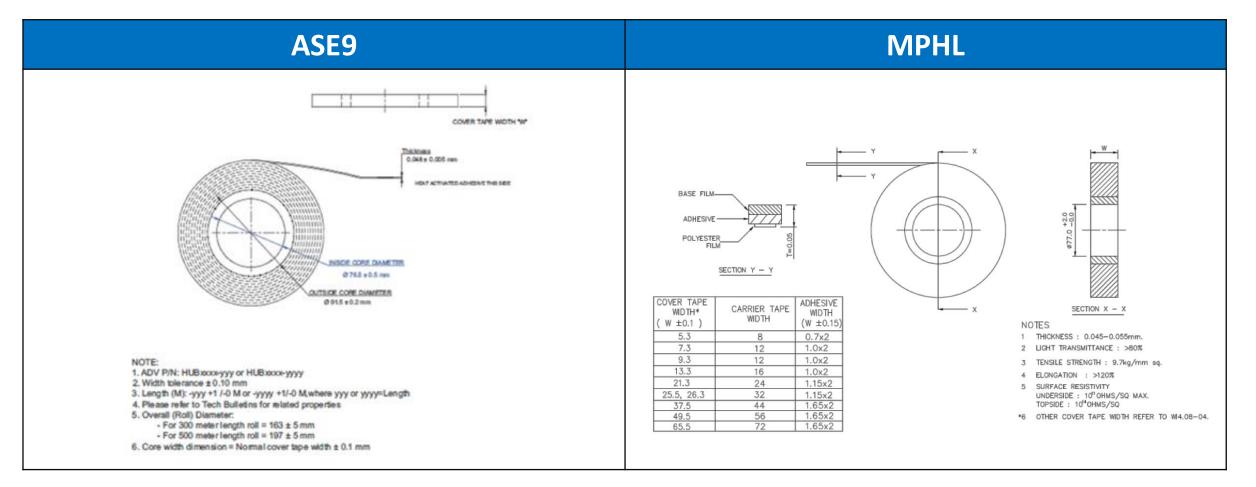


Pre and Post Change Summary - Carrier Tape (100L TQFP)





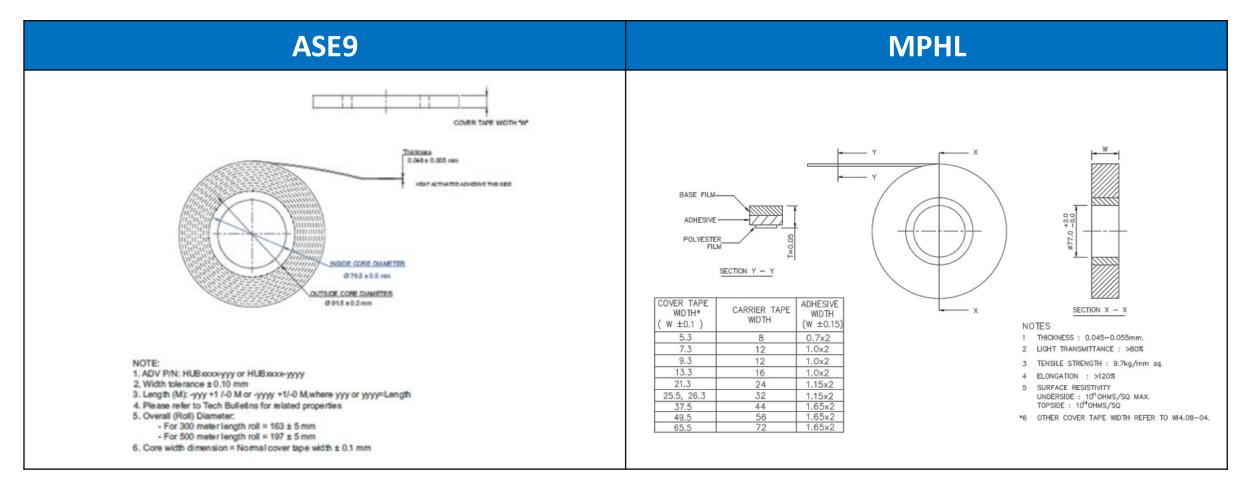
Pre and Post Change Summary - Cover Tape (64L TQFP)



Plant	Cover Tape Width	Sealing mythology
ASE9	21mm	Heat Sealing
MPHL	21.3mm	Pressure Sealing



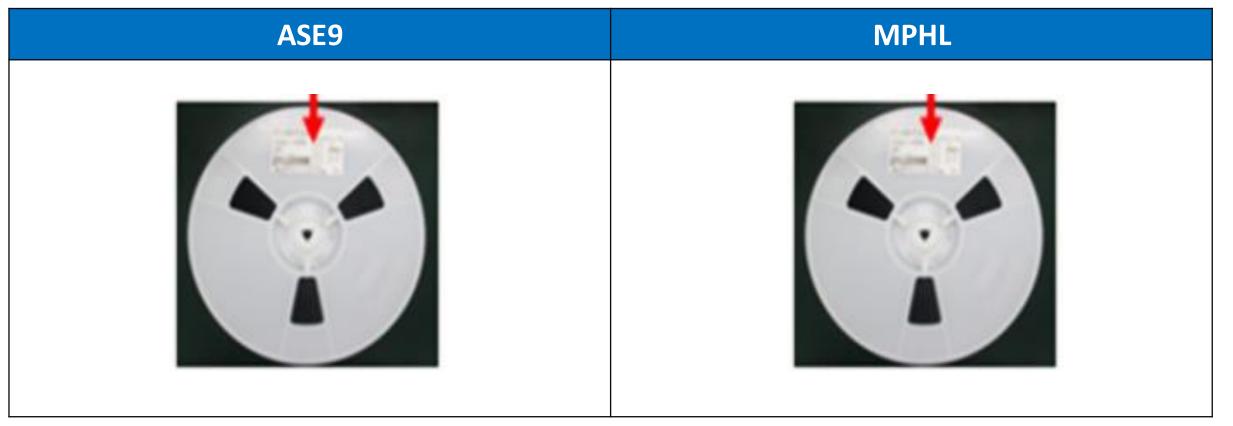
Pre and Post Change Summary - Cover Tape (100L TQFP)



Plant	Cover Tape Width	Sealing mythology
ASE9	25.5mm	Heat Sealing
MPHL	21.3mm	Pressure Sealing



Pre and Post Change Summary – Plastic Reel (64L and 100L TQFP)



Plant	Reel size	Color	Material
ASE9	13″	White	Plastic
MPHL	13″	White	Plastic

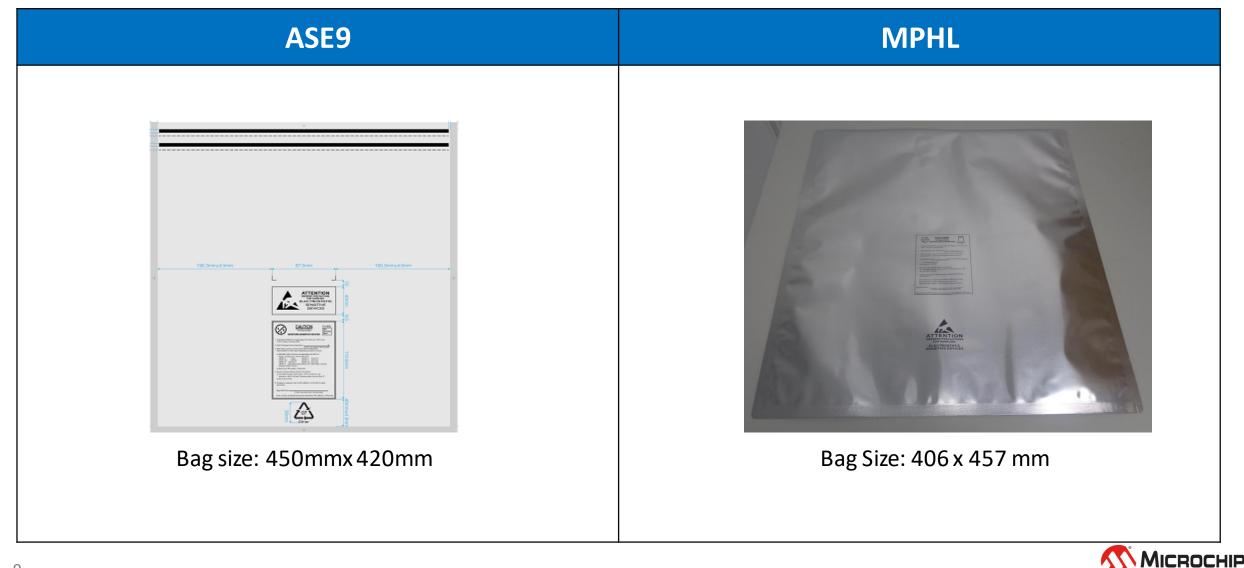


Pre and Post Change Summary – Desiccant (64L and 100L TQFP)





Pre and Post Change Summary – Bag for T/R (64L and 100L TQFP)

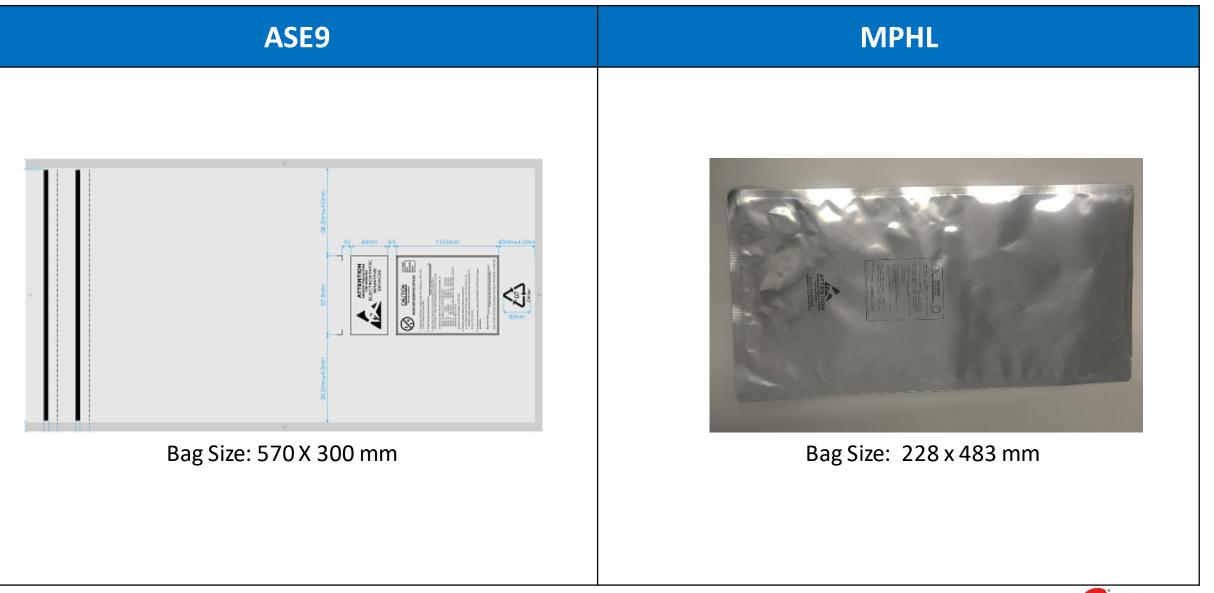


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Pre and Post Change Summary – Box for T/R (64L and 100L TQFP)



Pre and Post Change Summary – Bag for Tray (64L TQFP)



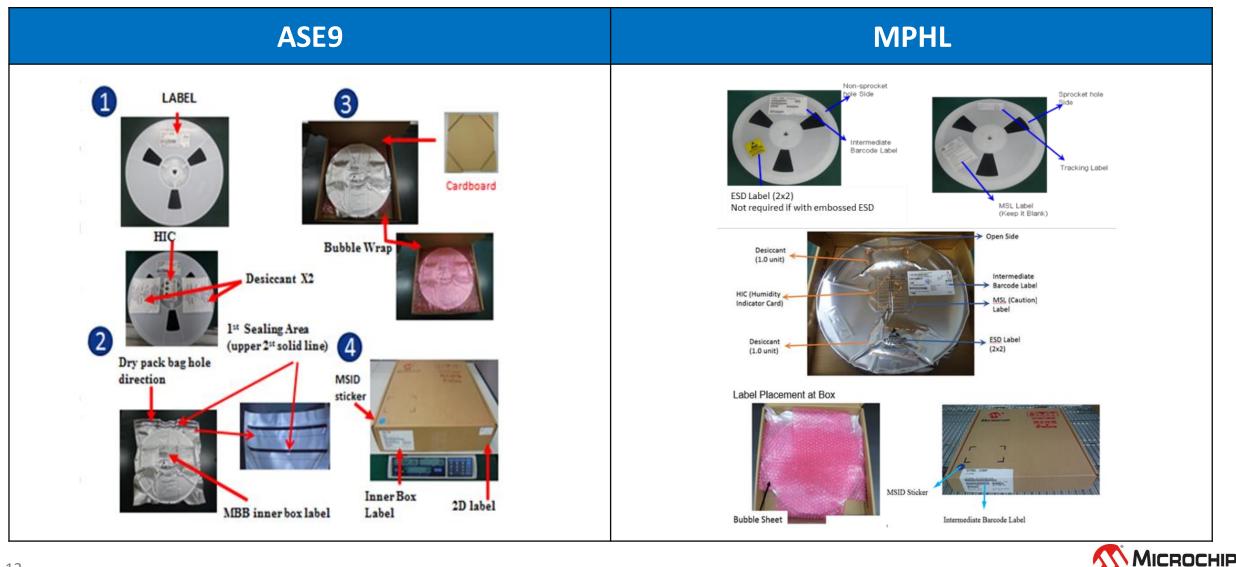


Pre and Post Change Summary – Box for Tray (64L TQFP)

ASE9	MPHL
	ででした たた た た に た に た に た に た に た に た に た に た に た に た に た に た に た た た た た た た た た た た た た
Inner Box Tray: 37.1x16.2x8.8 cm	Inner Box Tray: 16.2x37.1x8.8cm



Pre and Post Change Summary – T/R Packing Method (64L and 100L TQFP)



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Pre and Post Change Summary – Tray Packing Method (64L TQFP)





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Affected Catalog Part Numbers (CPN)

ATSAML22J16A-AU ATSAML22N16A-AUT ATSAML22N17A-AUT ATSAML22J16A-AUT ATSAML22J16A-AUT ATSAML22J17A-AUT