



Product Change Notification / JAON-19SJPJ307

Date:

25-May-2021

Product Category:

32-bit Microcontrollers

PCN Type:

Manufacturing Change

Notification Subject:

CCB 4398.001 Final Notice: Qualification of MMT as an additional assembly site for selected Atmel ATSAML10D1xA, ATSAML11D1xA, ATSAMD11D14A, ATSAMD10D1xA, ATSAMD09D14A and ATMPS001D14A device families available in 24L VQFN (4x4x0.9mm) package.

Affected CPNs:

[JAON-19SJPJ307_Affected_CPN_05252021.pdf](#)

[JAON-19SJPJ307_Affected_CPN_05252021.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 MMT as an additional assembly site for selected Atmel ATSAML10D1xA, ATSAML11D1xA, ATSAMD11D14A, ATSAMD10D1xA, ATSAMD09D14A and ATMPS001D14A device families available in 24L VQFN (4x4x0.9mm) package.

Pre and Post Change Summary: *For ATSAML10D1xA and ATSAML11D1xA device families:*

	Pre Change	Post Change	
Assembly Site	ASE Group Chung-Li (ASCL)	ASE Group Chung-Li (ASCL)	Microchip Technology Thailand (Branch) (MMT)
Wire material	CuPdAu	CuPdAu	Au
Die attach material	ATB-125	ATB-125	8006NS
Molding compound material	G700	G700	G700
Lead frame material	C194	C194	C194
Lead frame DAP surface prep	Double Ag Ring Plated	Double Ag Ring Plated	Ag selective plated
Lead frame lead lock	No	No	Yes
	See pre and post change comparison		

For ATSAMD11D14A, ATSAMD10D1xA, ATSAMD09D14A and ATMPS001D14A device families:

	Pre Change	Post Change	
Assembly Site	ASE Inc. (ASE)	ASE Inc. (ASE)	Microchip Technology Thailand (Branch) (MMT)
Wire material	CuPdAu	CuPdAu	Au
Die attach material	NEX-130CTX	NEX-130CTX	8006NS
Molding compound material	G631H	G631H	G700
Lead frame material	C194	C194	C194
Lead frame paddle size	110x110	110x110	114x114
Lead frame DAP surface prep	Ag plated	Ag plated	Ag selective plated
Lead frame lead lock	No	No	Yes
	See pre and post change comparison		
MSL Classification	MSL 3	MSL 3	MSL 1

Impacts to Data Sheet: Yes. Package Outline Drawing (POD)

Feature	Dimension	ASCL / ASE 24L VQFN-WFS 4x4			MMT 24L VQFN-WFS 4x4		
		MIN	NOM	MAX	MIN	NOM	MAX
Number of Pins	n	24			24		
Pitch	e	0.50 REF			0.50 BSC		
Overall Height	A	0.80	0.85	0.90	0.80	0.90	1.00
Standoff	A1	0.00	-	0.05	0.00		0.05
Terminal Thickness	A3	0.203 REF			0.203 REF		
Overall Width	D	3.90	4.00	4.10	3.90	4.00	4.10
Exposed Pad Width	D2	2.55	2.60	2.65	2.55	2.60	2.65
Overall Length	E	3.90	4.00	4.10	3.90	4.00	4.10
Exposed Pad Length	E2	2.55	2.60	2.65	2.55	2.60	2.65
Terminal Width	b	0.20	0.25	0.30	0.20	0.25	0.30

Terminal Length	L	0.35	0.40	0.45	0.35	0.40	0.45
Contact-to-Exposed Pad	K	0.20	-	-		0.30 REF	

Change Impact:None

Reason for Change:To improve on-time delivery performance by qualifying MMT as an additional assembly site.

Change Implementation Status:In Progress

Estimated First Ship Date:May 28, 2021 (date code: 2122)

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

Time Table Summary:

	May 2021				
Workweek	1 9	2 0	2 1	2 2	2 3
Qual Report Availability				X	
Final PCN Issue Date				X	
Estimated First Ship 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:May 25, 2021: Issued final notification. Attached the qualification report. Provided estimated first ship date to be on May 28, 2021.

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-19SJPI307_Qual_Report.pdf](#)
[PCN_JAON-19SJPI307_Pre and Post Change_Summary.pdf](#)

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

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Affected Catalog Part Numbers (CPN)

ATSAAML10D14A-MF
ATSAAML10D15A-MF
ATSAAML10D16A-MF
ATSAAML11D14A-MF
ATSAAML11D15A-MFKPH
ATSAAML11D15A-MF
ATSAAML11D16A-MFKPH
ATSAAML11D16A-MF
ATSAAML10D14A-MU
ATSAAML10D15A-MU
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ATSAAMD10D14A-MUT
ATSAAMD10D13A-MUT
ATSAAMD09D14A-MUT
ATSAAMD10D14A-MUTB5
ATMPS001D14A-MUT
ATMPS001D14A-MUTA01
NI32D14-MUT
ATSAAMD11D14A-MUTN03