



## Product Change Notification / ALAN-21DIWQ740

---

### Date:

28-Sep-2021

### Product Category:

8-bit Microcontrollers, Capacitive Touch Sensors

### PCN Type:

Manufacturing Change

### Notification Subject:

CCB 4852 Final Notice: Qualification of MMT as an additional assembly site for selected Atmel products AT42QTxx, AT89LPxx and ATMEGAXx device families available in 44L VQFN (7x7x1mm) package.

### Affected CPNs:

[ALAN-21DIWQ740\\_Affected\\_CPN\\_09282021.pdf](#)

[ALAN-21DIWQ740\\_Affected\\_CPN\\_09282021.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 products AT42QTxx, AT89LPxx and ATMEGAXx device families available in 44L VQFN (7x7x1mm) package.

### Pre and Post Change Summary:

	Pre Change	Post Change
--	------------	-------------

Assembly Location		ASE Group Chung-Li (ASCL)		Lingsen Precision Industries, LTD. (LPI)		ASE Group Chung-Li (ASCL)		Lingsen Precision Industries, LTD. (LPI)		Microchip Technology Thailand (MMT)
<b>MSL</b>		MSL-1	MSL-3	MSL-1	MSL-3	MSL-1	MSL-3	MSL-1	MSL-3	MSL-1
<b>Bond Wire</b>		Au	AuPd	Au	CuPdAu	Au	AuPd	Au	CuPdAu	Au
<b>Material</b>		CuPdAu	Cu			CuPdAu	Cu			
		PdCu				PdCu				
<b>Die Attach material</b>		EN-4900G		EN-4900G	CRM-1076 WA	EN-4900G		EN-4900G	CRM-1076 WA	3280
<b>Mold compound material</b>		G700LA	CEL-92 40	G770H		G700LA	CEL-92 40	G770H		G700LTD
<b>Lead Frame</b>	<b>Material</b>	C194		C194		C194		C194		C194
	<b>DAP surface prep</b>	Ag-Ring Plated		Ag-Ring Plated		Ag-Ring Plated		Ag-Ring Plated		Bare Cu
	<b>Paddle size</b>	213x213 mils		209x209 mils	213x213 mils	213x213 mils		209x209 mils	213x213 mils	213x213 mils
	<b>Lead-lock</b>	Yes		No		Yes		No		Yes
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 MMT as an additional assembly site.

**Change Implementation Status:**In Progress

**Estimated First Ship Date:**October 20, 2021 (date code: 2143)

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

**Time Table Summary:**

	September 2021					October 2021				
Workweek	36	37	38	39	40	41	42	43	44	45
Qual Report Availability					X					
Final PCN Issue Date					X					

Sample Availability								X		
Earliest date Microchip may implement upon approval*								X		

\*Upon customer approval

**Method to Identify Change:** Traceability code

**Qualification Report:** Please open the attachments included with this PCN labeled as PCN\_#\_Qual Report.

**Revision History:** September 28, 2021: 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\\_ALAN-21DIWQ740\\_Pre and Post Change\\_Summary.pdf](#)

[PCN\\_ALAN-21DIWQ740\\_Qual Report 1 of 2.pdf](#)

[PCN\\_ALAN-21DIWQ740\\_Qual Report 2 of 2.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)

ATMEGA1284P-MU  
ATMEGA1284-MU  
ATMEGA1284P-MUR  
ATMEGA1284-MUR  
ATMEGA324PA-MU  
ATMEGA324A-MU  
ATMEGA324PA-MN  
ATMEGA324PA-MNR  
AT42QT5480-MUR  
AT42QT18C15-MUR  
ATMEGA324PA-MUR  
ATMEGA324A-MUR  
ATMEGA324PA-MURA2  
ATMEGA16L-8MU  
ATMEGA16-16MU  
ATMEGA16A-MU  
ATMEGA16A-MUR  
ATMEGA16L-8MUR  
ATMEGA16-16MUR  
ATMEGA32-16MU  
ATMEGA32A-MN  
ATMEGA32A-MNR  
ATMEGA32-16MUR  
ATMEGA164A-MU  
ATMEGA164PA-MU  
ATMEGA164PA-MN  
ATMEGA164PA-MNR  
ATMEGA164A-MUR  
ATMEGA164PA-MUR  
ATMEGA644PA-MU  
ATMEGA644A-MU  
ATMEGA644PA-MN  
ATMEGA644PA-MNR  
ATMEGA644PA-MUR  
ATMEGA644A-MUR  
ATMEGA16L-8MUA6  
ATMEGA16-16MQ  
ATMEGA8515L-8MU  
ATMEGA8515-16MU  
ATMEGA8515L-8MUR  
ATMEGA8515-16MUR  
ATMEGA8535L-8MU  
ATMEGA8535-16MU  
ATMEGA8535L-8MUR  
ATMEGA8535-16MUR  
ATMEGA162-16MU

ATMEGA162V-8MU  
ATMEGA162-16MUR  
ATMEGA162V-8MUR  
ATMEGA644-20MU  
ATMEGA644V-10MU  
ATMEGA644-20MUR  
ATMEGA644V-10MUR  
ATMEGA164PV-10MU  
ATMEGA164P-20MU  
ATMEGA164P-20MQ  
ATMEGA164PV-10MUR  
ATMEGA164P-20MUR  
ATMEGA324PV-10MUA1  
ATMEGA324P-20MU  
ATMEGA324PV-10MU  
ATMEGA324P-20MQ  
ATMEGA324P-20MQR  
ATMEGA324PV-10MUR  
ATMEGA324P-20MUR  
ATMEGA644PV-10MU  
ATMEGA644PV-10MQ  
ATMEGA644P-20MQ  
ATMEGA644P-20MQR  
ATMEGA644PV-10MQR  
ATMEGA644PV-10MUR  
ATMEGA164PV-10MUA0  
AT89LP52-20MU  
AT89LP51-20MU  
AT89LP51ED2-20MU  
AT89LP51ID2-20MU  
AT89LP51RD2-20MU  
AT89LP51RB2-20MU  
AT89LP51RC2-20MU  
AT89LP51IC2-20MU  
AT89LP6440-20MU  
AT89LP3240-20MU  
ATMEGA32A-MU  
ATMEGA32L-8MU  
ATMEGA16L-8MURA5  
ATMEGA32A-MUR  
ATMEGA32L-8MUA3  
ATMEGA32L-8MUR  
ATMEGA32L-8MURA2  
ATMEGA644P-20MU  
ATMEGA644P-20MUR