



Product Change Notification / CADA-20GQNA115

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**Date:**

11-Aug-2022

**Product Category:**

EtherCAT, Ethernet Controllers, Ethernet Switches

**PCN Type:**

Manufacturing Change

**Notification Subject:**

CCB 4827 Final Notice: Qualification of MTAI as a new assembly site for selected LAN925xx and LAN9353 device families available in 64L QFN (9x9x0.9mm) package.

**Affected CPNs:**

[CADA-20GQNA115\\_Affected\\_CPN\\_08112022.pdf](#)  
[CADA-20GQNA115\\_Affected\\_CPN\\_08112022.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 MTAI as a new assembly site for selected LAN925xx and LAN9353 device families available in 64L QFN (9x9x0.9mm) package.

**Pre and Post Change Summary:**

	Pre Change	Post Change

Assembly Site	ASE Inc. (ASE)	Microchip Technology Thailand  (HQ) (MTAI)
Wire Material	CuPdAu	CuPdAu
Die Attach Material	EN-4900F	3280
Molding Compound Material	G631H	G700LTD
Lead-Frame Material	C194	A194
Lead-Frame Paddle Size	287x287mils	244 x 244mils
Lead Frame Design	Please refer to pre and post change comparison	

**Impacts to Data Sheet:**None

**Change Impact:**None

**Reason for Change:**To improve on-time delivery performance by qualifying MTAI as a new assembly site.

**Change Implementation Status:**In Progress

**Estimated First Ship Date:**September 12, 2022 (2238)

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

**Time Table Summary:**

	February 2022						August 2022				September 2022				
Workweek	6	7	8	9	>	32	33	34	35	36	37	38	39	40	
Initial PCN Issue Date				x											
Qual Report Availability							x								
Final PCN Issue Date							x								
Estimated Implementation 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:**February 24, 2022: Issued initial notification.

August 11, 2022: Issued final notification. Provided estimated first ship date to be on September 12, 2022.

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

## **Attachments:**

[PCN\\_CADA-20GQNA115\\_Qual Report.pdf](#)

[PCN\\_CADA-20GQNA115\\_Pre and Post Change\\_Summary.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.

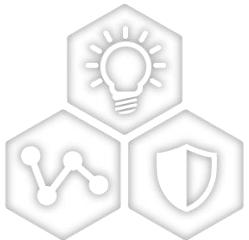
If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

**CCB 4827**  
**Pre and Post Change Summary**  
**PCN #: CADA-20GQNA115**



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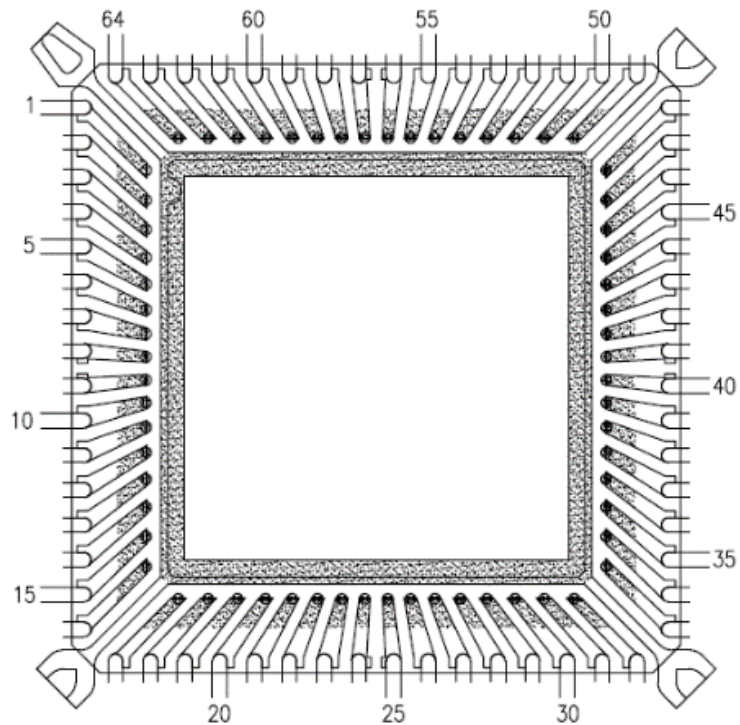
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# LEAD FRAME COMPARISON

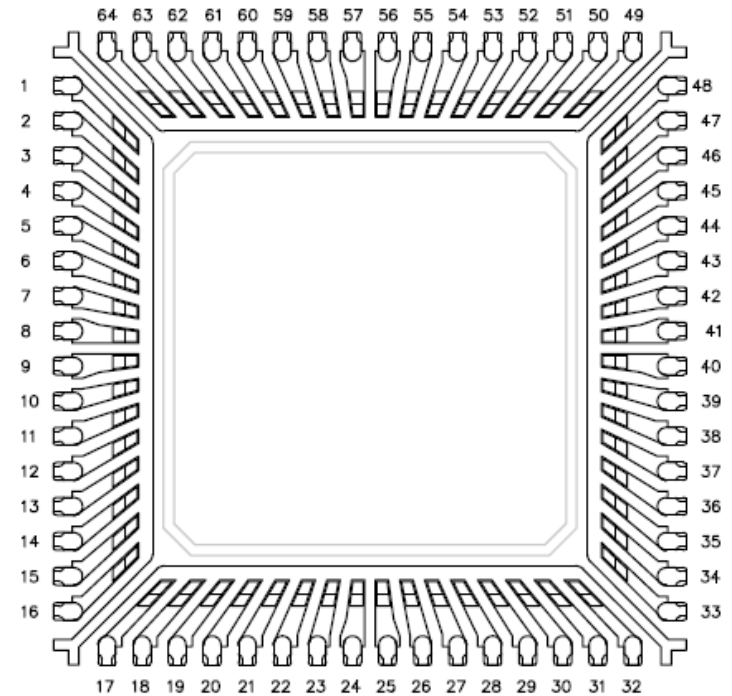
## ASE



Lead frame Paddle Size

287x287mils

## MTAI



Lead frame Paddle Size

244 x 244mils



**MICROCHIP**

# **QUALIFICATION REPORT SUMMARY**

**PCN #: CADA-20GQNA115**

**Date:  
August 4, 2022**

**Qualification of MTAI as a new assembly site for selected  
LAN925xx and LAN9353 device families available in 64L QFN  
(9x9x0.9mm) package**



# MICROCHIP

## PACKAGE QUALIFICATION REPORT

<b>Purpose</b>	Qualification of MTAI as a new assembly site for selected LAN925xx and LAN9353 device families available in 64L QFN (9x9x0.9mm) package
<b>CN</b>	E000094918
<b>QUAL ID</b>	R2200334
<b>MP CODE</b>	XA8011R4XA0C
<b>Part No.</b>	LAN9252/ML
<b>Bonding No.</b>	BD-000177 Rev.01
<b>CCB#</b>	4827
<b><u>Package</u></b>	
<b>Type</b>	64L QFN
<b>Package size</b>	9 x 9 x 0.9 mm
<b><u>Lead Frame</u></b>	
<b>Paddle size</b>	244 x 244 mils
<b>Material</b>	A194
<b>Surface</b>	Double ring
<b>Treatment</b>	Roughening
<b>Process</b>	Etched
<b>Lead Lock</b>	No
<b>Part Number</b>	10106416
<b><u>Material</u></b>	
<b>Epoxy</b>	3280
<b>Wire</b>	CuPdAu
<b>Mold Compound</b>	G700LTD
<b>Plating Composition</b>	Matte Sn



# MICROCHIP PACKAGE QUALIFICATION REPORT

## Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Date Code
MTAI224902106.000	TC14922238841.100	2209WQR
MTAI224902603.000	TC14922238841.100	22090SC
MTAI224902608.000	TC14922238841.100	220913M

## Result

Pass     Fail     \_\_\_\_\_

64L QFN (9x9x0.9 mm) assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 3 at 260°C reflow temperature per IPC/JEDEC J-STD-020E standard.



## PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS	Result	Remarks
<b>Precondition Prior Perform Reliability Tests (At MSL Level 3)</b>	<b>Electrical Test:</b> +25°C and 105°C System: EX_DIGITAL  Bake 150°C, 24 hrs System: CHINEE  30°C/60%RH Moisture Soak 192 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 265°C max  System: Vitronics Soltec MR1243  <b>Electrical Test:</b> +25°C and 105°C System: EX_DIGITAL	JESD22- A113  JIP/ IPC/JEDEC J-STD-020E	693(0)	693  693  693  693  0/693	Pass	Good Devices

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>Temp Cycle</b>	<b>Stress Condition:</b> -65°C to +150°C, 500 Cycles System: TABAI ESPEC TSA-70H	JESD22- A104		231		Parts had been pre-conditioned at 260°C  77 units / lot
	<b>Electrical Test:</b> +105°C System: EX_DIGITAL		231(0)	0/231	Pass	
	<b>Bond Strength:</b> Wire Pull (> 2.50 grams) Bond Shear (>13.00 grams)		15 (0)	0/15	Pass	
			15 (0)	0/15	Pass	
<b>UNBIASED-HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. System: HAST 6000X	JESD22- A118		231		Parts had been pre-conditioned at 260°C  77 units / lot
	<b>Electrical Test:</b> +25°C System: EX_DIGITAL		231(0)	0/231	Pass	
<b>HAST</b>	<b>Stress Condition:</b> +130°C/85%RH, 96 hrs. <b>Bias Volt:</b> PS= 1.2 Volts, PS4= 3.3 Volts System: HAST 6000X	JESD22- A110		231		Parts had been pre-conditioned at 260°C  77 units / lot
	<b>Electrical Test:</b> +25°C and 105°C System: EX_DIGITAL		231(0)	0/231	Pass	

# PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Standard/ Method	Qty. (Acc.)	Def/SS.	Result	Remarks
<b>High Temperature Storage Life</b>	<b>Stress Condition:</b> Bake 150°C, 500 hrs System: SHEL LAB  <b>Electrical Test:</b> +25°C and 105°C System: EX_DIGITAL	JESD22- A103	135(0)	135  0/135	  Pass	45 units / lot

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Affected Catalog Part Numbers(CPN)

- LAN9250/ML
- LAN9252/ML
- LAN9353/ML
- LAN9250I/ML
- LAN9252I/ML
- LAN9353I/ML
- LAN9250V/ML
- LAN9252V/ML
- LAN9250TV/ML
- LAN9252TV/ML
- LAN9250T/ML
- LAN9252T/ML
- LAN9353T/ML
- LAN9250TI/ML
- LAN9252TI/ML
- LAN9353TI/ML
- LAN9253/R4X
- LAN9253-I/R4X
- LAN9253-V/R4X
- LAN9253T-V/R4X
- LAN9253T/R4X
- LAN9253T-I/R4X