



## Product Change Notification / CADA-20GQNA115

---

**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



**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.

Affected Catalog Part Numbers (CPN)

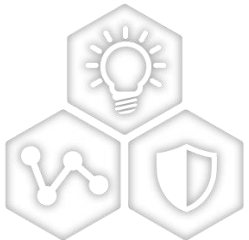
LAN9250/ML  
LAN9252/ML  
LAN9353/ML  
LAN9250I/ML  
LAN9252I/ML  
LAN9353I/ML  
LAN9250V/ML  
LAN9252V/ML  
LAN9250TV/ML  
LAN9252TV/ML  
LAN9250T/ML  
LAN9252T/ML  
LAN9353T/ML  
LAN9250TI/ML  
LAN9252TI/ML  
LAN9353TI/ML  
LAN9253/R4X  
LAN9253-I/R4X  
LAN9253-V/R4X  
LAN9253T-V/R4X  
LAN9253T/R4X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

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



---

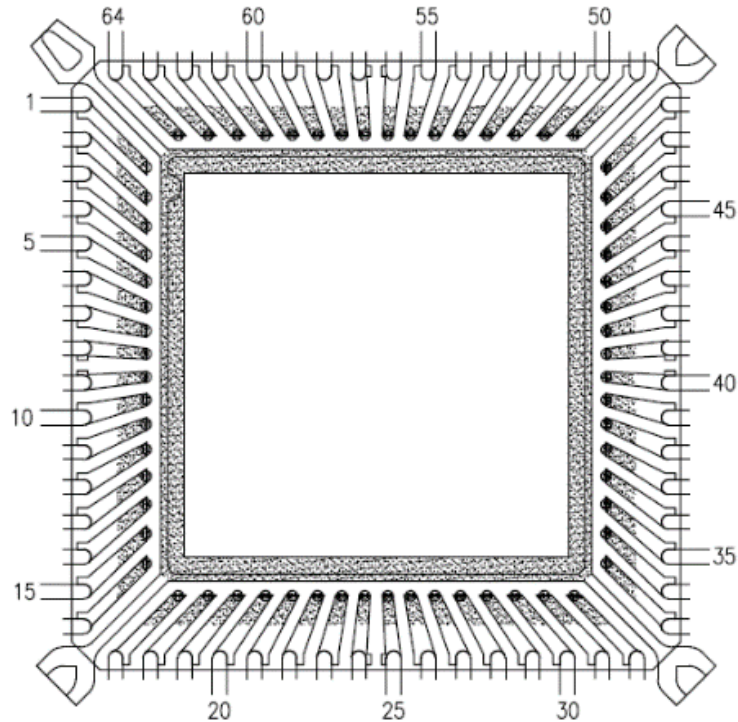
A Leading Provider of Smart, Connected and Secure Embedded Control Solutions



SMART | CONNECTED | SECURE

# LEAD FRAME COMPARISON

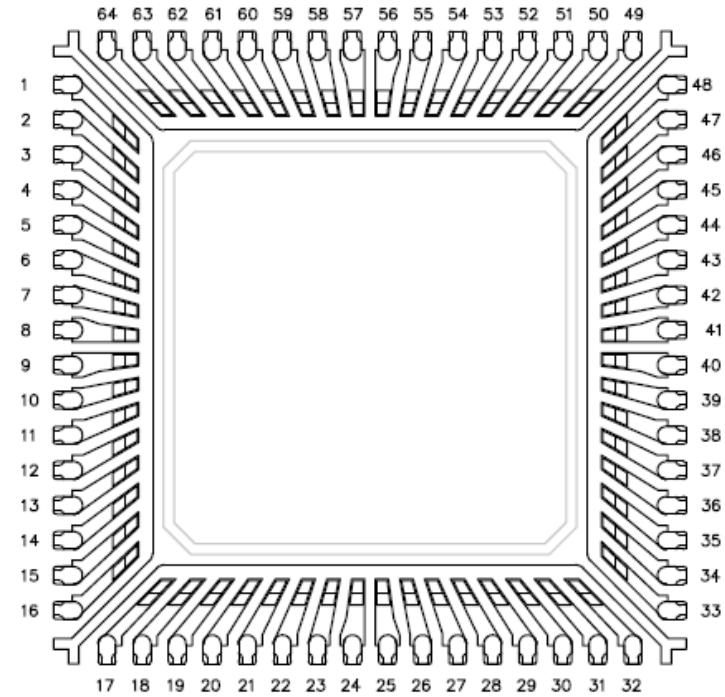
ASE



Lead frame Paddle Size

287x287mils

MTAI



Lead frame Paddle Size

244 x 244mils



# **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**

<b>Assembly Lot No.</b>	<b>Wafer Lot No.</b>	<b>Date Code</b>
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	JESD22-A113	693(0)	693		Good Devices
	Bake 150°C, 24 hrs System: CHINEE	JIP/ IPC/JEDEC		693		
	30°C/60%RH Moisture Soak 192 hrs. System: TABAI ESPEC Model PR-3SPH	J-STD-020E		693		
	3x Convection-Reflow 265°C max  System: Vitronics Soltec MR1243			693		
	<b>Electrical Test:</b> +25°C and 105°C System: EX_DIGITAL			0/693	Pass	

# PACKAGE QUALIFICATION REPORT

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

## 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	JESD22- A103		135		45 units / lot
	<b>Electrical Test:</b> +25°C and 105°C System: EX_DIGITAL		135(0)	0/135	Pass	