



Product Change Notification: MAAN-10LJUU618

Date:

21-Jul-2025

Product Category:

32-Bit Microcontrollers

Notification Subject:

CCB 7241 Final Notice: Qualification of ATP7 as an additional assembly site for PIC32CZ4010CA90208-I/8MX-SL3, PIC32CZ8110CA90208-I/8MX-SL3, PIC32CZ4010CA80208-I/8MX, PIC32CZ8110CA80208-I/8MX-SL3 and PIC32CZ8110CA80208-I/8MX catalog part numbers (CPN) available in 208L TFBGA (15x15x1.19mm) package.

Affected CPNs:

[MAAN-10LJUU618_Affected_CPN_07212025.pdf](#)

[MAAN-10LJUU618_Affected_CPN_07212025.csv](#)

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 ATP7 as an additional assembly site for PIC32CZ4010CA90208-I/8MX-SL3, PIC32CZ8110CA90208-I/8MX-SL3, PIC32CZ4010CA80208-I/8MX, PIC32CZ8110CA80208-I/8MX-SL3 and PIC32CZ8110CA80208-I/8MX catalog part numbers (CPN) available in 208L TFBGA (15x15x1.19mm) package.

Pre and Post Summary Changes:

| | Pre Change | Post Change | |
|---------------|---|---|--|
| Assembly Site | Amkor Assembly & Test (Shanghai) Co., LTD (ANAC) | Amkor Assembly & Test (Shanghai) Co., LTD (ANAC) | Amkor Technology Philippines (P3/P4), INC. (ATP7) |

| | | | |
|----------------------------------|----------|----------|----------|
| Wire Material | CuPdAu | CuPdAu | CuPdAu |
| Die Attach Material | 2300 | 2300 | 2300 |
| Molding Compound Material | G750E | G750E | G750E |
| Core Material | HL832NXA | HL832NXA | HL832NXA |
| Substrate Material | AUS320 | AUS320 | AUS320 |

Impacts to Datasheet: None

Change Impact: None

Reason for Change: To improve on time delivery performance by qualifying ATP7 as an additional assembly site.

Change Implementation Status: In Progress

Estimated First Ship Date: 30 August 2025 (date code: 2535)

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

Timetable Summary:

| | November 2024 | | | | | > | July 2025 | | | | | August 2025 | | | | |
|-------------------------------|---------------|----|----|----|----|---|-----------|----|----|----|----|-------------|----|----|----|----|
| Work Week | 44 | 45 | 46 | 47 | 48 | | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 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: November 13, 2024: Issued initial notification.

December 06, 2024: Re-issued initial notification to update the qualification plan to automotive grade 2 qualification.

July 21, 2025: Issued final notification. Attached the Qualification Report. Provided the estimated first ship date to be on August 30, 2025.

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

Attachments:

[PCN_MAAN-10LJU618_Qualification Report.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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Affected Catalog Part Numbers (CPN)

PIC32CZ4010CA80208-I/8MX

PIC32CZ4010CA90208-I/8MX-SL3

PIC32CZ8110CA80208-I/8MX

PIC32CZ8110CA80208-I/8MX-SL3

PIC32CZ8110CA90208-I/8MX-SL3



QUALIFICATION REPORT SUMMARY

RELIABILITY LABORATORY

PCN#: MAAN-10LJUU618

Date:
June 3, 2025

**Qualification of ATP7 as an additional assembly site for
PIC32CZ4010CA90208-I/8MX-SL3, PIC32CZ8110CA90208-I/8MX-SL3,
PIC32CZ4010CA80208-I/8MX, PIC32CZ8110CA80208-I/8MX-SL3 and
PIC32CZ8110CA80208-I/8MX catalog part numbers (CPN) available in
208L TFBGA (15x15x1.19mm) package. This is a grade 2
qualification.**



MICROCHIP Package Qualification Report

Purpose: Qualification of ATP7 as an additional assembly site for PIC32CZ4010CA90208-I/8MX-SL3, PIC32CZ8110CA90208-I/8MX-SL3, PIC32CZ4010CA80208-I/8MX, PIC32CZ8110CA80208-I/8MX-SL3 and PIC32CZ8110CA80208-I/8MX catalog part numbers (CPN) available in 208L TFBGA (15x15x1.19mm) package. This is a grade 2 qualification.

CCB No.: 7241

| | | |
|-------------------|--|--------------------------|
| <u>Misc.</u> | Assembly site | ATP7 |
| | BD Number | BD-002783-02 |
| | MP Code (MPC) | SG20478MXCXA |
| | Part Number (CPN) | PIC32CZ8110CA90208-I/8MX |
| | MSL information | MSL3, 260°C |
| | Assembly Shipping Media (T/R, Tube/Tray) | Tray |
| | Base Quantity Multiple (BQM) | 119 |
| | Reliability Site | MTAI |
| <u>Substrate</u> | Core Material | HL832NXA |
| | Core Thickness | 250um |
| | L1/L2 Thickness | 12/18/18/12 |
| | SM Material | AUS320 |
| | Process | NiAu |
| | SM Thickness | 25um |
| | Part Number | 101415277 |
| | Drill Size | 250um |
| | Line/Space Specs | 100um |
| <u>Bond Wire</u> | Material | CuPdAu |
| <u>Die Attach</u> | Part Number | 2300 |
| | Conductive | Yes |
| <u>MC</u> | Part Number | G750E |
| <u>PKG</u> | Package Type | TFBGA |
| | Pin/Ball Count | 208 |
| | PKG width/size | 15x15x1.19mm |
| | Ball Pitch/Size | 0.8/0.4 |
| | Solder Ball Material | SAC405 |



MICROCHIP

Package Qualification Report

Manufacturing Information

| Assembly Lot No. |
|-------------------------|
| ATP7253800001.000 |
| ATP7253800002.000 |
| ATP7253800003.000 |

Result



Pass



Fail



SG204 for GF_0.18um in 208 TFBGA 15x15x1.19 mm_8MX Package assembled at ATP7 pass reliability test that was conducted at MPHL rel lab. This package is qualified 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 |
|--|---|--|----------------|----------------|--------|--------------|
| Precondition Prior Perform Reliability Tests (At MSL Level 3) | Electrical Test : 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A113, JIP/ IPC/JEDEC J-STD-020E | 231 per lot | Lot 1 0/231 | Pass | Good Devices |
| | | | | Lot 2 0/231 | Pass | |
| | | | | Lot 3 0/231 | Pass | |
| | Bake 150°C, 24 hrs System: HERAEUS | | 231 per lot | | | |
| | Moisture Soak 192h(30°C/60%RH) System: VOTSCH VC4034 | | 231 per lot | | | |
| | Reflow 3x Convection-Reflow 265°C max System: Mancorp CR.5000F | | 231 per lot | Lot 1 0/231 | Pass | |
| | | | | Lot 2 0/231 | Pass | |
| | | | | Lot 3 0/231 | Pass | |
| | Electrical Test : 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | | 231 per lot | Lot 1 0/231 | Pass | |
| | | | | Lot 2 0/231 | Pass | |
| | | | | Lot 3 0/231 | Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|--|--|---------------------|-------------------|---------------|--------|---------|
| High Temperature Storage Life | Stress Condition: Bake 150°C, 500 hrs System: HERAEUS Electrical Test: 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A103 | 45 units 1 lot | Lot 1 0/45 | Pass | |
| | | | | Lot 2 0/45 | Pass | |
| | | | | Lot 3 0/45 | Pass | |
| | Stress Condition: Bake 150°C, 1000 hrs System: HERAEUS Electrical Test: 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A103 | 44 units 1 lot | Lot 1 0/44 | Pass | |
| | | | | Lot 2 0/44 | Pass | |
| | | | | Lot 3 0/44 | Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|----------------------------|--|---------------------|------------------|---|------------------------------|---|
| HAST | Stress Condition: (Standard) 130°C, 85%RH, 96 hrs. VOLTS=5.5V System: HIRAYAMA HASTEST PC-422R8 Electrical Test: 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A110 | 77 units per lot | Lot 1 0/77 Lot 2 0/77 Lot 3 0/77 | Pass Pass Pass | Parts had been pre-conditioned at 260°C |
| | Wire Bond / Pull WBP | Mil. Std. 883-2011 | 6 units per lot | Lot 1 0/6 Lot 2 0/6 Lot 3 0/6 | Pass Pass Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|----------------------------|---|---------------------|------------------|--|------------------------------|---|
| HAST | Stress Condition: (Standard) 130°C, 85%RH, 192 hrs. VOLTS=5.5V System: HIRAYAMA HASTEST PC-422R8 Electrical Test: 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A110 | 70 units per lot | Lot 1 0/70 Lot 2 0/70 Lot 3 0/70* | Pass Pass Pass | Parts had been pre-conditioned at 260°C |
| | Wire Bond / Pull WBP | Mil. Std. 883-2011 | 6 units per lot | Lot 1 0/6 Lot 2 0/6 Lot 3 0/6 | Pass Pass Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS. | Result | Remarks |
|----------------------------|--|---------------------|---------------------|---------------|--------|---|
| UNBIASED HAST | Stress Condition: (Standard) + 110°C, 85%RH, 264 hrs. System: HIRAYAMA HASTEST PC-422R8 Electrical Test: 25°C D1X_GX1_UC | JESD22-A118 | 77 units per lot | Lot 1 0/77 | Pass | Parts had been pre-conditioned at 260°C |
| | | | | Lot 2 0/77 | Pass | |
| | | | | Lot 3 0/77 | Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS | Result | Remarks |
|----------------------------|--|---------------------|------------------|---|------------------------------|---|
| Temp Cycle | Stress Condition: (Standard) - 55°C/125°C, 1000 Cycles System : Votsch VTS ² 7012 Electrical Test: 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A104 | 77 units per lot | Lot 1 0/77 Lot 2 0/77 Lot 3 0/77 | Pass Pass Pass | Parts had been pre-conditioned at 260°C |
| | Wire Bond / Pull WBP | Mil. Std. 883-2011 | 6 units per lot | Lot 1 0/6 Lot 2 0/6 Lot 3 0/6 | Pass Pass Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS | Result | Remarks |
|----------------------------|--|---------------------|------------------|---|------------------------------|---|
| Temp Cycle | Stress Condition: (Standard) - 55°C/125°C, 2000 Cycles System : Votsch VTS ² 7012 Electrical Test: 25°C D1X_GX1_UC 85°C D1X_GX1_UC 105°C D1X_GX1_UC | JESD22-A104 | 70 units per lot | Lot 1 0/70 Lot 2 0/70 Lot 3 0/70 | Pass Pass Pass | Parts had been pre-conditioned at 260°C |
| | Wire Bond / Pull WBP | Mil. Std. 883-2011 | 6 units per lot | Lot 1 0/6 Lot 2 0/6 Lot 3 0/6 | Pass Pass Pass | |

PACKAGE QUALIFICATION REPORT

| Test Number (Reference) | Test Condition | Standard/ Method | Qty. (Acc.) | Def/SS | Result |
|--------------------------------|----------------|------------------------|-------------------------------|---------------|--------|
| Wire Bond Pull WBP | | Mil. Std. 883- 2011 | 5 units, 30 bonds 1 lot | Lot 1 0/30 | Pass |
| Wire Bond Shear WBS | | CDF-AEC- Q100-001 | 5 units, 30 bonds 1 lot | Lot 1 0/30 | Pass |