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# **PRODUCT CHANGE NOTICE**

## **Alternate Manufacturing Facilities for Assembly of the Listed Intersil DFN/TDFN/QFN Packaged Products**

**Refer to:  
PCN14016**

**Date: March 20, 2014**

March 20, 2014

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Facilities for Assembly of the Listed Intersil DFN/TDFN/QFN Packaged Products – Carsem (CAS) - Ipoh, Malaysia**

This notice is to inform you that Intersil will begin using the Carsem (CAS) facility as alternate sites for assembly of the listed DFN/QFN/ TDFN (Dual/Quad Flat No-Lead/Thin Dual Flat No-Lead) packaged products. The current facility STATS ChipPAC (SCM) located in Kuala Lumpur, Malaysia has officially announced plant closure by end of year 2014. The hyperlink to the announcement is <http://www.statschippac.com/news/newscenter/2013/news06282013.aspx>. As of the date of this notice, the product and site-specific qualification activities at the Carsem (CAS) facility is complete.

The Carsem (CAS) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified. CAS is qualified as primary supplier to Intersil for high volume assembly of DFN/TDFN/QFN packaged products. There is no change in the MSL (moisture sensitivity level) or POD (package outline drawing).

The assembly qualification plan is designed using JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function, or interchangeability of the product. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, etc.) will continue to be processed to previously established conditions and systems.

Product affected by this change is identifiable via Intersil's internal traceability system. In addition, product assembled at CAS may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at CAS is "F".

Intersil will take all necessary actions to conform to agreed upon customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product assembled at either the SCM or CAS facility beginning *ninety* days from the date of this notification or earlier with approval.

If you have concerns with this change notice, Intersil must hear from you promptly. Please contact the nearest Intersil Sales Office or call the Intersil Corporate line at 1-888-468-3774, in the United States, or 1-321-724-7143 outside of the United States.

Regards,



Jeff Touvell  
Intersil Corporation

PCN14016

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# PCN14016 – CAS Reliability Qualification Results

Stress / Conditions	Duration	ISL76120ARTZ-T 10 LEAD 3x3 DFN	ISL78100ARZ-T 20 LEAD 4x4 QFN	ISL78211ARZ-T 40 LEAD 6x6 QFN	ISL78228ARZ-T 10 LEAD 3x3 DFN
Moisture Sensitivity Classification		N = 66 Acc = 0 L2 PBFREE	N = 22 Acc = 0 L1 PBFREE	N = 66 Acc = 0 L2 PBFREE	N/A
High Temperature Operating Life T <sub>A</sub> @ + 125°C	1000 Hrs	N/A	N = 90 Acc = 0	N/A	N = 231 Acc = 0
Early Life Failure Rate (ELFR) T <sub>A</sub> @ + 125°C	48 Hrs	N/A	N = 1200 Acc = 0	N/A	N/A
Biased HAST +130C / 85% RH	96 Hrs	N/A	N = 385 Acc = 0	N/A	N = 400 Acc = 0
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N/A	N = 45 Acc = 0 <sup>note 1</sup>	N/A	N = 50 Acc = 0 <sup>note 1</sup>
Unbiased HAST +130C / 85% RH	96 Hrs	N = 240 Acc = 0	N = 154 Acc = 0	N = 240 Acc = 0	N/A
Temp Cycle +150C / -65C	500 Cy	N = 240 Acc = 0	N = 231 Acc = 0	N = 240 Acc = 0	N/A

Stress / Conditions	Duration	ISL78236ARZ-T 24 LEAD 4x4 QFN	ISL78311ARAJZ-T 10 LEAD 3x3 DFN	ISL78419ARZ-T 28 LEAD 4x5 QFN
Moisture Sensitivity Classification		N/A	N/A	N = 66 Acc = 0 L3 PBFREE
High Temperature Operating Life T <sub>A</sub> @ + 125°C	1000 Hrs	N/A	N = 240 Acc = 0	N/A
Early Life Failure Rate (ELFR) T <sub>A</sub> @ + 125°C	48 Hrs	N = 2079 Acc = 0	N = 2480 Acc = 0	N/A
Biased HAST +130C / 85% RH	96 Hrs	N/A	N = 240 Acc = 0	N/A
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N/A	N = 50 Acc = 0	N/A
Unbiased HAST +130C / 85% RH	96 Hrs	N/A	N = 240 Acc = 0	N = 240 Acc = 0
Temp Cycle +150C / -65C	500 Cy	N/A	N = 240 Acc = 0	N = 240 Acc = 0

## PCN14016 – Affected Products (CAS)

ISL76120ARTZ	ISL78302AARBZ-T	ISL78302AR1AZ	ISL78302ARNBZ-T
ISL76120ARTZ-T	ISL78302AARGCZ	ISL78302AR1AZ-TR5303	ISL78302ARNWZ
ISL76120ARTZ-TR5303	ISL78302AARGCZ-T	ISL78302ARBFZ	ISL78302ARNWZ-T
ISL78113AARAZR5492	ISL78302AARJ CZ	ISL78302ARBFZ-T	ISL78302ARNWZ-TR5303
ISL78113AARAZ-T	ISL78302AARJ CZ-T	ISL78302ARBZ	ISL78302ARWCZ
ISL78113AARAZ-T7A	ISL78302AARJ MZ	ISL78302ARBZ-T	ISL78302ARWCZ-T
ISL78113AARAZ-TR5492	ISL78302AARJ MZ-T	ISL78302ARCWZ	ISL78419ARZ
ISL78113ARAZ-T	ISL78302AARJ RZ	ISL78302ARCWZ-T	ISL78419ARZ-T
ISL78113ARAZ-T7A	ISL78302AARJ RZ-T	ISL78302ARFBZ	
ISL78113ARAZT7AR5492	ISL78302AARLLZ	ISL78302ARFBZ-T	
ISL78113ARAZ-TR5492	ISL78302AARLLZ-T	ISL78302ARFBZ-TR5303	
ISL78211ARZ	ISL78302AARMMZ	ISL78302ARFWZ	
ISL78211ARZ-T	ISL78302AARMMZ-T	ISL78302ARFWZ-T	
ISL78211ARZ-TR5303	ISL78302AARPLZ	ISL78302ARFWZ-TR5303	
ISL78302AARBZ	ISL78302AARPLZ-T	ISL78302ARNBZ	