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# **PRODUCT CHANGE NOTICE**

**Alternate Bond Wire Material  
for Assembly of the Listed  
Intersil DFN/TDFN/QFN/TQFN  
Packaged Products**

**Refer to:  
PCN14019**

**Date: March 26, 2014**

March 26, 2014

To: Our Valued Intersil Customer

Subject: **Alternate Bond Wire Material for Assembly of the Listed Intersil DFN/TDFN/QFN/TQFN Packaged Products – Carsem (CAS) Ipoh, Malaysia**

This notice is to inform you that Intersil has qualified copper bond wire as an alternate to the gold bond wire currently used for assembly of the listed DFN/TDFN/QFN/TQFN (Dual/Quad Flat No-lead, Thin Dual/Quad Flat No-lead) packaged products at the Carsem (CAS) facility located in Ipoh, Malaysia. The advantages of copper bond wire include improved electrical conductivity of the wire, slower intermetallic growth, reduced wire sweep and equivalent reliability performance. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer's delivery requirements. The product and site-specific qualification activities are complete.

The Carsem (CAS) facility is ISO 9001:2008 and ISO/TS 16949:2009 certified and qualified as a supplier to Intersil for assembly of DFN/TDFN/QFN/TQFN packaged products with both copper and gold bond wire material. Products assembled with copper bond wire are classified as moisture sensitivity level three (MSL 3 at 260°C per J-STD-020). As such, the listed products will be packed, labeled, and shipped as moisture sensitivity level three (MSL 3) upon implementation of the changes outlined in this PCN.

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

Products affected by this change that are assembled using either gold or copper bond wire material are identifiable via Intersil's internal traceability system and by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at CAS with copper bond wire is "X". The site code for product assembled at CAS with gold bond wire 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 products being supplied. Customers may expect to receive product assembled using either gold or copper bond wire 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

PCN14019

CC: J. Touvell D. Decrosta YW Cheong S. Nadarajah P. Lee C. Brazil R. Turner

## PCN14019 –Products Affected

ISL22102IR20Z	ISL54233IRTZ-T7A	ISL8033IRZR5423	ISL9001IRRZ-T
ISL22102IR20Z-TK	ISL54409IRTZ-T	ISL8033IRZR5432	ISL9001IRRZ-TS2695
ISL28230CRZ	ISL54410IRTZ-T	ISL8033IRZ-T	ISL9005AIRBZ-T
ISL28230CRZ-T13	ISL6273IRZ	ISL8033IRZ-T7A	ISL9005AIRCZ-T
ISL28230CRZ-T7	ISL6273IRZS2695	ISL8033IRZ-TR5423	ISL9005AIRFZ-T
ISL28230CRZ-T7A	ISL6273IRZ-T	ISL8033IRZ-TR5432	ISL9005AIRJZ-T
ISL28230FRZ	ISL6273IRZ-TS2687	ISL8036AIRZ	ISL9005AIRKZ-T
ISL28230FRZ-T13	ISL6273IRZ-TS2695	ISL8036AIRZ-T	ISL9005AIRLZ-T
ISL28230FRZ-T7	ISL6274AIRZ-TR5256	ISL8036IRZ	ISL9005AIRMZ-T
ISL28230FRZ-T7A	ISL8009AIRZ-T7A	ISL8036IRZR5415	ISL9005AIRNZ-T
ISL28233FRZ	ISL8009AIRZ-TK	ISL8036IRZ-T	ISL9005AIRRZ-T
ISL28233FRZ-T13	ISL8009AIRZ-TS2715	ISL8036IRZ-T7A	ISL9005IRBZ-T
ISL28233FRZ-T7	ISL8009AIRZ-TS2718	ISL8036IRZ-TR5415	ISL9005IRCZ-T
ISL28233FRZ-T7A	ISL8009AIRZ-TS2719	ISL8088IRZ-T	ISL9005IRFZ-T
ISL54000IRTZ	ISL8009AIRZ-TS2739	ISL8088IRZ-T7A	ISL9005IRJZ-T
ISL54000IRTZ-T	ISL8009AIRZ-TS2757	ISL9001AIRBZ-T	ISL9005IRKZ-T
ISL54001IRTZ	ISL8009BIRZ-T	ISL9001AIRCZ-T	ISL9005IRLZ-T
ISL54001IRTZ-T	ISL8009IRZ-T	ISL9001AIRFZ-T	ISL9005IRMZ-T
ISL54002IRTZ	ISL8011IRZ	ISL9001AIRJZ-T	ISL9005IRNZ-T
ISL54002IRTZ-T	ISL8011IRZ-T	ISL9001AIRKZ-T	ISL9005IRRZ-T
ISL54003IRTZ	ISL8012IRZ	ISL9001AIRLZ-T	ISL9011AIRBBZ
ISL54003IRTZ-T	ISL8012IRZ-T	ISL9001AIRMZ-T	ISL9011AIRBBZ-T
ISL54004IRTZ	ISL8012IRZ-T7A	ISL9001AIRNZ-T	ISL9011AIRBCZ
ISL54004IRTZ-T	ISL8012IRZ-TS2568	ISL9001AIRRZ-T	ISL9011AIRBCZ-T
ISL54005IRTZ	ISL8012IRZ-TS2705	ISL9001IRBZ-T	ISL9011AIRBJZ
ISL54005IRTZ-T	ISL8013AIRZ	ISL9001IRBZ-TS2695	ISL9011AIRBJZ-T
ISL54006IRTZ	ISL8013AIRZ-T7A	ISL9001IRCZ-T	ISL9011AIRBLZ
ISL54006IRTZ-T	ISL8013AIRZ-TS2568	ISL9001IRCZ-TS2695	ISL9011AIRBLZ-T
ISL54214IRTZ	ISL8013IRZ	ISL9001IRFZ-T	ISL9011AIRCCZ
ISL54214IRTZ-T	ISL8013IRZS2715	ISL9001IRFZ-TS2695	ISL9011AIRCCZ-T
ISL54216IRTZ	ISL8013IRZ-T	ISL9001IRJZ-T	ISL9011AIRCJZ
ISL54216IRTZ-T	ISL8013IRZ-TS2568	ISL9001IRJZ-TS2695	ISL9011AIRCJZ-T
ISL54217IRTZ	ISL8013IRZ-TS2715	ISL9001IRKZ-T	ISL9011AIRFCZ
ISL54217IRTZ-T	ISL8022IRZ	ISL9001IRKZ-TS2695	ISL9011AIRFCZ-T
ISL54226IRTZ-T	ISL8022IRZ-T	ISL9001IRLZ-T	ISL9011AIRFDZ
ISL54226IRTZ-T7A	ISL8022IRZ-T7A	ISL9001IRLZ-TS2695	ISL9011AIRFDZ-T
ISL54228IRTZ-T	ISL8033AIRZ	ISL9001IRMZ-T	ISL9011AIRFJZ
ISL54228IRTZ-T7A	ISL8033AIRZ-T	ISL9001IRMZ-TS2695	ISL9011AIRFJZ-T
ISL54233IRTZ	ISL8033AIRZ-TS2568	ISL9001IRNZ-T	ISL9011AIRGCZ
ISL54233IRTZ-T	ISL8033IRZ	ISL9001IRNZ-TS2695	ISL9011AIRGCZ-T

## PCN14019 – Products Affected

ISL9011AIRGPZ	ISL9011AIRMNZ	ISL9011IRFJZ	ISL9011IRLLZ-T
ISL9011AIRGPZ-T	ISL9011AIRMNZ-T	ISL9011IRFJZ-T	ISL9011IRMGZ
ISL9011AIRJBZ	ISL9011AIRNCZ	ISL9011IRGCZ	ISL9011IRMGZ-T
ISL9011AIRJBZ-T	ISL9011AIRNCZ-T	ISL9011IRGCZ-T	ISL9011IRMMZ
ISL9011AIRJCZ	ISL9011AIRNFZ	ISL9011IRGPZ	ISL9011IRMMZ-T
ISL9011AIRJCZ-T	ISL9011AIRNFZ-T	ISL9011IRGPZ-T	ISL9011IRMNZ
ISL9011AIRJMZ	ISL9011AIRNJZ	ISL9011IRJBZ	ISL9011IRMNZ-T
ISL9011AIRJMZ-T	ISL9011AIRNJZ-T	ISL9011IRJBZ-T	ISL9011IRNCZ
ISL9011AIRJNZ	ISL9011AIRNNZ	ISL9011IRJBZ-TS2697	ISL9011IRNCZ-T
ISL9011AIRJNZ-T	ISL9011AIRNNZ-T	ISL9011IRJZ	ISL9011IRNFZ
ISL9011AIRJRZ	ISL9011AIRPLZ	ISL9011IRJZ-T	ISL9011IRNFZ-T
ISL9011AIRJRZ-T	ISL9011AIRPLZ-T	ISL9011IRJMZ	ISL9011IRNJZ
ISL9011AIRKCZ	ISL9011AIRPPZ	ISL9011IRJMZ-T	ISL9011IRNJZ-T
ISL9011AIRKCZ-T	ISL9011AIRPPZ-T	ISL9011IRJNZ	ISL9011IRNNZ
ISL9011AIRKFZ	ISL9011IRBBZ	ISL9011IRJNZ-T	ISL9011IRNNZ-T
ISL9011AIRKFZ-T	ISL9011IRBBZ-T	ISL9011IRJRZ	ISL9011IRPLZ
ISL9011AIRKJZ	ISL9011IRBCZ	ISL9011IRJRZ-T	ISL9011IRPLZ-T
ISL9011AIRKJZ-T	ISL9011IRBCZ-T	ISL9011IRKCZ	ISL9011IRPPZ
ISL9011AIRKKZ	ISL9011IRBJZ	ISL9011IRKCZ-T	ISL9011IRPPZ-T
ISL9011AIRKKZ-T	ISL9011IRBJZ-T	ISL9011IRKFZ	ISL9012IRBJZ
ISL9011AIRKNZ	ISL9011IRBLZ	ISL9011IRKFZ-T	ISL9012IRBJZ-T
ISL9011AIRKNZ-T	ISL9011IRBLZ-T	ISL9011IRKJZ	ISL9012IRCCZ
ISL9011AIRKPZ	ISL9011IRCCZ	ISL9011IRKJZ-T	ISL9012IRCCZ-T
ISL9011AIRKPZ-T	ISL9011IRCCZ-T	ISL9011IRKKZ	ISL9012IRCJZ
ISL9011AIRLLZ	ISL9011IRCJZ	ISL9011IRKKZ-T	ISL9012IRCJZ-T
ISL9011AIRLLZ-T	ISL9011IRCJZ-T	ISL9011IRKNZ	ISL9012IRFCZ
ISL9011AIRMGZ	ISL9011IRFCZ	ISL9011IRKNZ-T	ISL9012IRFCZ-T
ISL9011AIRMGZ-T	ISL9011IRFCZ-T	ISL9011IRKPZ	ISL9012IRFDZ
ISL9011AIRMMZ	ISL9011IRFDZ	ISL9011IRKPZ-T	ISL9012IRFDZ-T
ISL9011AIRMMZ-T	ISL9011IRFDZ-T	ISL9011IRLLZ	ISL9012IRFJZ

## PCN14019 – Products Affected

ISL9012IRFJZ-T	ISL9012IRNFZ-T	ISL9014AIRJBZ-T	ISL9014AIRNCZ-T
ISL9012IRGCZ	ISL9012IRNJZ	ISL9014AIRJCZ	ISL9014AIRNFZ
ISL9012IRGCZ-T	ISL9012IRNJZ-T	ISL9014AIRJCZ-T	ISL9014AIRNFZ-T
ISL9012IRJBZ	ISL9012IRNNZ	ISL9014AIRJMZ	ISL9014AIRNJZ
ISL9012IRJBZ-T	ISL9012IRNNZ-T	ISL9014AIRJMZ-T	ISL9014AIRNJZ-T
ISL9012IRJCZ	ISL9012IRPLZ	ISL9014AIRJNZ	ISL9014AIRNNZ
ISL9012IRJCZ-T	ISL9012IRPLZ-T	ISL9014AIRJNZ-T	ISL9014AIRNNZ-T
ISL9012IRJMZ	ISL9014AIRBBZ	ISL9014AIRJRZ	ISL9014AIRPLZ
ISL9012IRJMZ-T	ISL9014AIRBBZ-T	ISL9014AIRJRZ-T	ISL9014AIRPLZ-T
ISL9012IRJNZ	ISL9014AIRBCZ	ISL9014AIRKCZ	ISL9014AIRPPZ
ISL9012IRJNZ-T	ISL9014AIRBCZ-T	ISL9014AIRKCZ-T	ISL9014AIRPPZ-T
ISL9012IRJRZ	ISL9014AIRBJZ	ISL9014AIRKFZ	ISL9105IRZ-T
ISL9012IRJRZ-T	ISL9014AIRBJZ-T	ISL9014AIRKFZ-T	ISL9105IRZ-TS2715
ISL9012IRK CZ	ISL9014AIRBLZ	ISL9014AIRKJZ	ISL9105IRZ-TS2719
ISL9012IRK CZ-T	ISL9014AIRBLZ-T	ISL9014AIRKJZ-T	ISL9106IRZ
ISL9012IRKFZ	ISL9014AIRCCZ	ISL9014AIRKKZ	ISL9106IRZ-T
ISL9012IRKFZ-T	ISL9014AIRCCZ-T	ISL9014AIRKKZ-T	ISL9106IRZ-TR5506
ISL9012IRKJZ	ISL9014AIRCJZ	ISL9014AIRKNZ	ISL9106IRZ-TS2708
ISL9012IRKJZ-T	ISL9014AIRCJZ-T	ISL9014AIRKNZ-T	ISL9107IRZ-T
ISL9012IRKKZ	ISL9014AIRFCZ	ISL9014AIRKPZ	ISL9107IRZ-TS2490
ISL9012IRKKZ-T	ISL9014AIRFCZ-T	ISL9014AIRKPZ-T	ISL9108IRZ-T
ISL9012IRLLZ	ISL9014AIRFDZ	ISL9014AIRLLZ	ISL9109IRZ-T
ISL9012IRLLZ-T	ISL9014AIRFDZ-T	ISL9014AIRLLZ-T	ISL9201IRZ
ISL9012IRMGZ	ISL9014AIRFJZ	ISL9014AIRMGZ	ISL9201IRZ-T
ISL9012IRMGZ-T	ISL9014AIRFJZ-T	ISL9014AIRMGZ-T	
ISL9012IRMMZ	ISL9014AIRGCZ	ISL9014AIRMMZ	
ISL9012IRMMZ-T	ISL9014AIRGCZ-T	ISL9014AIRMMZ-T	
ISL9012IRMNZ	ISL9014AIRGPZ	ISL9014AIRMNZ	
ISL9012IRMNZ-T	ISL9014AIRGPZ-T	ISL9014AIRMNZ-T	
ISL9012IRNFZ	ISL9014AIRJBZ	ISL9014AIRNCZ	

## PCN14019 – CAS Reliability Qualification Results

Stress / Conditions	Duration	ISL8009AIRZ-TK 8 lead 2X3 DFN	ISL8013AIRZ-T 16 lead 4X4 QFN	ISL8033IRZ-T 24 lead 4X4 QFN	ISL8033IRZ-T (monitor) 24 lead 4x4 QFN
Moisture Sensitivity Classification		N = 66 Acc = 0 L3 PBFREE	N/A	N = 66 Acc = 0 L3 PBFREE	N/A
Biased HAST +130C / 85% RH	96 Hrs	N/A	N = 78 Acc = 0	N/A	N/A
Unbiased HAST +130C / 85% RH	96 Hrs	N = 78 Acc = 0	N/A	N = 78 Acc = 0	N = 5100 Acc = 0
Temp Cycle +150C / -65C	500 Cy	N = 240 Acc = 0	N/A	N = 240 Acc = 0	N/A
High Temperature Storage T <sub>A</sub> = +150C	1000 Hrs	N = 78 Acc = 0	N/A	N = 78 Acc = 0	N/A

 Qualification Completed & Passed