
PRODUCT CHANGE NOTICE

**Alternate Bond Wire Material
for Assembly of the Listed
Intersil QFN Packaged
Products**

**Refer to:
PCN10083**

Date: September 6, 2010

September 6, 2010

To: Our Valued Intersil Customer

Subject: **Alternate Bond Wire Material for Assembly of the Listed Intersil QFN Packaged Products – *STATS ChipPAC Malaysia***

Intersil has qualified copper bond wire as an alternate to gold bond wire. This notice is to inform you that this change will be implemented on the listed QFN (Quad Flat No-Lead Plastic) packaged products that are assembled at the STATS ChipPAC (SCM) facility, located in Kuala Lumpur, Malaysia. The advantages of copper bond wire include improved electrical conductivity of the wire, slower intermetallic growth, reduced wire sweep and equivalent reliability performance. The product and package specific qualification activities are complete.

The STATS ChipPAC (SCM) facility is ISO 9001:2000 and ISO/TS 16949:2009 certified and currently qualified as a supplier to Intersil for assembly of QFN packaged products. There is no change in form, fit or function of the product. There will be no change in the material set (mold compound, die attach, or lead frame) or package outline drawing (POD). Products assembled with copper bond wire are classified as moisture sensitivity level three (MSL 3 at 260°C per J-STD-020D). The qualified material set combination for copper bond wire assembly is as follows:

Material	SCM
Mold Compound	Sumitomo EME-G770
Die Attach	Ablestik A8290

The qualification plan for copper bond wire assembly was designed using JEDEC and other applicable industry standards to confirm that there is no impact to form, fit, function, or interchangeability of the product. A summary of the qualification results is 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.

Intersil will begin shipping product that has been assembled with copper (Cu) bond wire on December 6, 2010. 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) marked on the devices. The site code for product assembled with copper bond wire is "M". The site code for product assembled with gold bond wire is "H". Examples of product markings are below.

Part Marking (Gold Wire)



Part Marking (Copper Wire)



Time is of the essence. 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. Upon expiration of the ninety (90) day notice period Intersil will commence shipment of copper wire bonded product.

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PCN10083

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PCN10083 – Qualification Summary

	ISL9214 3X3 QFN	ISL6236 5X5 QFN	ISL6312 7X7 QFN
HTOL 1000hrs	<i>0 / 78</i>	N/A	<i>0 / 78</i>
HTS 1000hrs	<i>0 / 78</i>	<i>0 / 78</i>	<i>0 / 78</i>
ub HAST 96hrs	<i>0 / 78</i>	<i>0 / 75</i>	<i>0 / 78</i>
Biased HAST 96hrs	<i>0 / 78</i>	N/A	<i>0 / 78</i>
TMCL IND 1000 cyc	<i>0 / 234</i>	<i>0 / 234</i>	<i>0 / 234</i>
TMCL MIL 500 cyc	<i>0 / 234</i>	<i>0 / 234</i>	<i>0 / 234</i>
ABI 96 hrs	<i>0/15</i>	<i>0/15</i>	<i>0/15</i>

PCN10083 – Products Affected

ISL6236IRZA-TKR5281	ISL6308CRZ-T	ISL6405ERZ-T
ISL6236IRZA-TR5281	ISL6308CRZ-TR5372	ISL6443IRZ
ISL6236IRZA-TS2378	ISL6308CRZ-TR5374	ISL6443IRZ-T
ISL6236IRZA-TS2568	ISL6308CRZ-TS2378	ISL6443IRZ-TK
ISL6236IRZAR5281	ISL6308CRZ-TS2568	ISL6443IRZ-TS2705
ISL6237IRZ	ISL6308CRZ-TS2701	ISL6540ACRZ
ISL6237IRZ-T	ISL6308CRZR5372	ISL6540ACRZ-T
ISL6237IRZ-TS2378	ISL6308CRZR5374	ISL6540ACRZ-TS2378
ISL6251AHRZ	ISL6308IRZ	ISL6540ACRZ-TS2490
ISL6251AHRZ-T	ISL6308IRZ-T	ISL6540AIRZ
ISL6255AHRZ	ISL6308IRZ-TR5384	ISL6540AIRZ-T
ISL6255AHRZ-T	ISL6308IRZ-TS2568	ISL6540AIRZ-TS2568
ISL6255AHRZ-TR5271	ISL6322GCRZ	ISL6540AIRZA
ISL6255AHRZ-TS2378	ISL6322GCRZ-T	ISL6540AIRZA-T
ISL6255AHRZR5271	ISL6322GCRZ-TR5429	ISL6614CRZ
ISL6261ACRZ	ISL6323ACRZ	ISL6614CRZ-T
ISL6261ACRZ-T	ISL6323ACRZ-T	ISL6614CRZ-TS2709
ISL6261ACRZ-TR5392	ISL6323ACRZ-TR5381	ISL6614CRZA
ISL6261ACRZ-TS2378	ISL6323ACRZ-TR5429	ISL6614CRZA-T
ISL6261ACRZ-TS2568	ISL6323ACRZ-TS2701	ISL8121IRZ
ISL6262ACRZ-T	ISL6323ACRZR5381	ISL8121IRZ-T
ISL6262ACRZ-TS2568	ISL6323BCRZ	ISL8121IRZ-TS2568
ISL6262ACRZ-TS2704	ISL6323BCRZ-T	ISL88731AHRZ
ISL6263CHRZ	ISL6323BCRZ-TR5381	ISL88731AHRZ-T
ISL6263CHRZ-T	ISL6323BCRZ-TS2709	ISL88731HRZ
ISL6263CHRZ-TS2378	ISL6323BCRZR5381	ISL88731HRZ-T
ISL6266AHRZ	ISL6324ACRZ	ISL9440IRZ
ISL6266AHRZ-T	ISL6324ACRZ-T	ISL9440IRZ-T
ISL6266AHRZ-TR5319	ISL6324ACRZ-TR5381	ISL9504BHRZ
ISL6269ACRZ	ISL6324ACRZ-TR5429	ISL9504BHRZ-T
ISL6269ACRZ-T	ISL6324ACRZR5381	ISL9563AHRZ
ISL6269BCRZ	ISL6326CRZ	ISL9563AHRZ-T
ISL6269BCRZ-T	ISL6326CRZ-T	ISL9563AHRZ-TS2378
ISL6271ACRZ	ISL6326CRZ-TS2701	ISL9563BHRZ-TR5400
ISL6271ACRZ-T	ISL6326CRZ-TS2705	
ISL6308CRZ	ISL6405ERZ	