

# **PRODUCT CHANGE NOTICE**

**Alternate Manufacturing Site  
for the Listed Intersil Pb-Free  
QFN Packaged Products**

**Refer to:  
PCN10048**

**Date: May 22, 2010**

May 22, 2010

To: Our Valued Intersil Customer

Subject: **Alternate Manufacturing Site for the Listed Intersil Pb-Free QFN Packaged Products** – *STATS ChipPAC Malaysia*

This notice is to inform you that Intersil is qualifying the STATS ChipPAC Malaysia (SCM) facility as an alternate site for performing assembly, final electrical test, tape and reel, packing, and shipment of the listed Intersil Pb-Free QFN (Quad Flat No-Lead Plastic) packaged products. This action will expand current capabilities and capacities to optimize Intersil’s ability to meet customer’s delivery requirements. The site-specific approvals and verification activities are in process and targeted to complete during the next three to six months.

The STATS ChipPAC Malaysia (SCM) facility is ISO 9001:2000 and ISO/TS 16949:2002 certified and currently qualified as a primary supplier to Intersil for assembly and test of QFN packaged products. Customers may expect to receive the listed products interchangeably from either the current sources or *SCM* upon successful completion of the applicable product/process qualification requirements. There will be no change in the package outline drawing (POD) except for the maximum package height. The maximum package height will change from 0.90mm to 1.00mm with a nominal value of 0.90mm. The 1.00mm maximum aligns with JEDEC POD MO-220 variation V. There will be no change in the moisture sensitivity level (MSL). The qualified material sets and plating combinations are as follows:

Part Number	Package	Material	Current - ATP	Proposed - SCM
ZL2004, ZL2014	5X5 QFN 32p	Mold Compound Die Attach Lead Finish	CEL 9220 AMK06 Ni/Pd/Au	Sumitomo EME-G770 Ablestik A8290 Matte Sn Finish
ZL2106	6X6 QFN 36p	Mold Compound Die Attach Lead Finish	CEL9220 or SG700 AMK06 Ni/Pd/Au	Sumitomo EME-G770 Ablestik A8290 Matte Sn Finish
ZL2005, ZL2006, ZL2008, ZL2105,ZL6100	6X6 QFN 36p	Mold Compound Die Attach Lead Finish	CEL9220 or SG700 AMK06 Matte Sn Finish	Sumitomo EME-G770 Ablestik A8290 Matte Sn Finish

The following summarizes the activities that are being conducted prior to production release to confirm there is no impact to the function or interchangeability of the product.

- Intersil supplied test software and product specific hardware will be used at *SCM*.
- The test equipment validation plan involves the testing of golden (control) units and a correlation lot at the *SCM* facility.
  - Control units will be tested, their performance recorded, and the results analyzed to validate the set-up.
  - A correlation lot of approximately 1000 units of select product types will be tested at the current test site and retested at *SCM*. The test results from each site will be compared.
  - Continuous monitoring and comparison of the data from lots processed at multiple sites are an ongoing function of the responsible product engineers.
- The visual/mechanical inspection and tape and reel operations are compliant to JEDEC industry standards used by all Intersil subcontractors.
- The assembly qualification plans are designed using JEDEC and other applicable industry standards. A summary of the assembly qualification plan is included for reference. The qualification results will be available for review upon completion by request.

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

Intersil will take all necessary actions to conform to customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product manufactured at the newly qualified site beginning *ninety* days from the date of this notification or upon completion of qualification activities.

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

*Jon Brewster*

Jon Brewster  
Intersil Corporation

PCN10048

CC: D. Foster J. Touvell D. Decrosta P. Selby M. Pandola E. Smith J. Glover

## **PCN10048 – Products Affected**

ZL2004ALNNT  
ZL2004ALNNT-01  
ZL2004ALNNT1  
ZL2004ALNNT1-01  
ZL2005ALNFT  
ZL2005ALNFT1  
ZL2005ALNFT1S2568  
ZL2005PALPFT  
ZL2005PALPFT1  
ZL2006ALNFT  
ZL2006ALNFT1  
ZL2008ALAFT  
ZL2008ALAFT1  
ZL2014ALANT-01  
ZL2014ALANT1-01  
ZL2014ALANT6-01  
ZL2105ALNFT  
ZL2105ALNFT1  
ZL2106ALCN  
ZL2106ALCNT  
ZL2106ALCNTK  
ZL6100ALAF  
ZL6100ALAFT  
ZL6100ALAFTK

## PCN10048 - Reliability Qualification Plan

### STATS ChipPAC Malaysia QFN

Stress / Conditions	Duration	ZL2014A 32 Lead 5X5 QFN	ZL2106A 36 Lead 6X6 QFN
Biased HAST 130C/85%RH	96 Hours	ss = 78 from 3 lots	NA
Storage Life Ta=150C	1,000 Hours	ss = 78 from 3 lots	ss = 78 from 3 lots
Unbiased HAST or PCT 130C / 85% RH or 121C / 100% RH	96 Hours	ss = 78 from 3 lots	ss = 78 from 3 lots
Temp Cycle -40C to +125C	1000 Cycles	ss = 78 from 3 lots	ss = 78 from 3 lots
MRT 260C (Pb free) Reflow	L2 PBFREE	ss = 44 from 2 lots	ss = 44 from 2 lots

Note: 1. THB, ubHAST (or PCT), temp cycle will be preconditioned to the qual vehicles existing MSL level (L2) in accordance with J-STD-020.