



800 W. 6th Street, Austin, TX 78701

PCN-2014-546

**Assembly and Test Site Transfer from StatsChipPac Kuala Lumpur, Malaysia (SCM)
to ASE-Chung Li (ASE-CL) Taiwan for the CS4207-CNZ(R) and
CS4207-DNZ(R) components**

**Process/Product Change Notification
(Reference Advance PCN-2014-532)**

Date: June 2014

Dear Customer:

This is a Final Announcement of the Assembly and Test Site Transfer from StatsChipPac Kuala Lumpur, Malaysia to ASE-Chung Li (ASE-CL) Taiwan for the CS4207-CNZ(R) and CS4207-DNZ(R) components that are currently offered by Cirrus Logic. This Final announcement is a follow on to the Advance PCN notification communicated to all customers in February of this calendar year 2014. The details of this Assembly and Test Site Transfer are outlined on the following pages.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the lifetime buy offering/discontinuance plan.

The described change(s) within this PCN will not be realized or take effect any earlier than **60** days from the date of this notification, unless a customer agreement has been reached on an earlier implementation of the change or successful completion of the defined qualification has been realized.

Please note that the notification period has been reduced from 90 days to 60 days as the SCM site recently informed Cirrus that the closure date has been moved forward from December 31st, 2014 to September 30th, 2014. Cirrus has no control over any changes to the site closure date.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Cirrus Logic would like to take this opportunity to thank our customers for their cooperation and assistance in this respective matter. Any specific or immediate inquiries should be directed to your local Field Sales Representative.

Sincerely,

PCN Coordinator
Cirrus Logic Corporate Quality
Phone: +1(512) 851-4000

Attachment: 1

Products Affected:

The devices listed on this page are the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

Technical details of this Process / Product Change follow on the next page(s).

PCN Number:	2014-546	PCN Date:	June 2014
Title:	Assembly and Test Site Transfer from StatsChipPac Kuala Lumpur, Malaysia to ASE-Chung Li (ASE-CL) Taiwan for the CS4207-CNZ(R) and CS4207-DNZ(R) components		
Customer Contact:	Local Field Sales Representative	Phone:	(512) 851-4000
		Dept:	Corporate Quality
Proposed 1st Ship Date:	August 2014	Estimated Sample Availability date:	May 2014
Change Type:	Assembly and Test Site Transfer to an existing Qualified Cirrus Logic Site Location: Change Type = Major		
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification
<input checked="" type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Assembly Materials
<input type="checkbox"/>		<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>		<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

PCN Details
Description of Change:
<p>Cirrus Logic's package Assembly and Test Supplier, StatsChipPac, has announced their site in Kuala Lumpur, Malaysia will close by September 30th, 2014.</p> <p>Cirrus Logic is qualifying and will move these products to the existing qualified subcontractor (ASE-CL) site location in Chung Li Taiwan.</p> <p>Below you will find an outline of the described changes for these components:</p> <p>CS4207-CNZ(R) and CS4207-DNZ(R)</p> <ul style="list-style-type: none"> • Assembly and Test Site Change: From: StatsChipPac Kuala Lumpur, Malaysia → To: ASE-Chung Li (ASE-CL) Taiwan • PackMark COO Symbolization: From: MYS → To: TWN • Mold Compound: From: Sumitomo EME-G770 → To: Hitachi CEL-9240HF • DIE Attach: From: Ablebond 8290 → To: Hitachi En4900
Reason for Change:
<p>Cirrus Logic's package Assembly and Test Supplier, StatsChipPac, has announced their site in Kuala Lumpur, Malaysia will close by September 30th, 2014.</p>

Cirrus Logic is qualifying and will move these products to the existing qualified subcontractor (ASE-CL) site location in Chung Li Taiwan.

Special Note:

As a full services supplier and in order to ensure continuity of supply as well as sustain quality an accelerated timeframe has been established for the full transfer of said product no later than September 30th, 2014.

Earlier production level material may be available from the qualified subcontractor (ASE-CL) site location in Chung Li Taiwan, but shipment(s) from Cirrus Logic are contingent on successful completion of the designated site transfer qualification.

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

Anticipated No Adverse Impact to the Quality & Reliability of said product; as Transfer Site is an existing Cirrus Logic qualified subcontractor (ASE-Chung Li) site location in Taiwan and considered low risk.

Product Affected: **Table I**

<u>Customer Part Number</u>	<u>Cirrus Logic Part Number</u>
Device 1:	CS4207-CNZ(R)
Device 2:	CS4207-DNZ(R)

Changes to product identification resulting from this PCN:

The Cirrus Logic component symbolization on the external face of the device reflects the designated Country Of Origin.

Below you will find a representative example:

Our part: **CS4207-DNZ(R)**

Customer part: **N/A**

Mark format: **262**

Mark change:

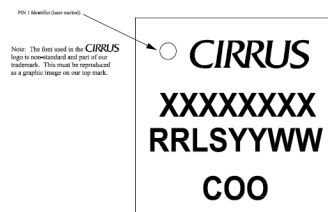
- Assembly vendor = None (not shown on mark)
- COO = changing From: **MYS** → TO: **TWN**

Line 1: Logo Line.

Line 2: Part Number (8 spaces max.)

Line 3: Package Mark (8 spaces max.)

Line 4: Country Of Origin (COO).



With the Site Transfer to ASE-Chung Li (ASE-CL) Taiwan, the material will receive the appropriate designation for the Country Of Origin.

Qualification Data:

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Schedule:	Start:	March 2014	End:	July 2014
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Qualification Device Construction Details:

	Device 1	Device 2
Part Number(s):	CS4207-CNZ(R) and CS4207-DNZ(R)	
Wafer Fab Site:	YF	
Wafer Technology:	0.25	
Die Size:	16.73 mm	
Assembly Site:	ASE-Chung Li (ASE-CL) Taiwan	
Package Type/Code:	48QFNW6Z / WQFN 6x6	
Moisture Level:	MSL (Moisture Sensitivity Level) 3	
Package Pins:	48 NL QFN	
Lead Frame Material:	Cu (Copper)	
Mold Compound Supplier:	CEL-9240HF Hitachi	
Lead Finish:	Matte Sn Plate	
Die Attach Material	Hitachi En4900	
Wire Diameter:	0.8mil	
Wire Base Metal:	Au (Gold)	

The Qualification Plans are designed using JEDEC and other applicable industry standards. An overall summary of the Qualification results will be submitted upon completion.

CS4207-DNZ(R) Qualification

CS4207-DNZ(R) Qualification: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> Test Results			
Reliability Test			Sample Size (PASS/FAIL)
Pre-Conditioning	JEDEC J-STD-020A	MSL3 / 260°C (3 Lots)	693 / 0
BHAST (Biased HAST)	JESD22 A101	130C/85%RH/96 hrs (BHAST) Read Point (96Hrs) 3 (Lots)	231 / 0
Temperature Cycle	JESD22 A104	-65°C to +150°C for 500 cycles (3 Lots)	231 / 0
HTOL (High Temperature Operating Life)	JESD22 A108	125°C Ta for 1000 hours at Vmax (3 Lots)	231 / 0
WBS (Wire Bond Shear)	JESD22 B116	Paragraph 4 (Procedure) (3 Lots)	5 units / lot
WBP (Wire Bond Pull)	MIL-STD-883 Method 2011	Paragraph 3 (Procedure) (3 Lots)	5 units / lot
SD (Solderability)	JESD22 B102	93°C / 8 hr steam age before SD (3 Lots)	5 units / lot
PD (Physical Dimensions)	JESD22 B100 + B108	Package outline per JESD95 Cpk > 1.50 per JESD95 (3 Lots)	60 / 0
ED (Electrical Distribution)	JESD86	Parametric limits per datasheet or user spec Designed for -40°C to +105°C (3 Lots)	90 / 0
HTSL (High Temperature Storage Life)	JESD22 A103	150°C for 1000 hrs (2 Lots)	90 / 0
Notes:			
<ul style="list-style-type: none"> • Qualification tests "pass" on zero fails for each test • CS4207-DNZ(R) serves as the Qualification Vehicle for CS4207-CNZ(R) 			

Test Equipment Correlation Plan

Note:

- The Equipment Platform Technology, Hardware and Software remain the same.
- The Visual / Mechanical inspection and Tape and Reel operations are compliant to JEDEC industry standards

The Test Equipment Correlation plan involves the following:

- Running the new site program with an OPEN Socket (No Unit) to ensure "All" tests fail.
- Serializing Control (Known Good) Units and testing the material on both test platforms (Existing and New Location) at all applicable test temperatures utilizing the same load-board and test site(s). A correlation comparison will be made on "All" individual components. If there is a concern or discrepancy exists, a bench level correlation will be performed to ensure new site meets data sheet requirements.
- Running samples from 2 or more lots at the existing site and at new site location. The results from each site will be compared.
- Running (the same) sample non-continuity failures (different failing tests) and testing them at the existing site and at the new site. All units are expected to fail at the new site location.
- Performing GR&R (Gauge Repeatability & Reproducibility)