



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA - 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> <b>A-0602-04R1</b> <b>DATE:</b> <b>21-Jun-2006</b>		<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b>	
<b>Product Affected:</b> Products built in 655L 24.5x19.5mm FCBGA. Refer to the attached list for the affected part numbers.		<input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark      Lot # will have "B" prefix <input type="checkbox"/> Date Code <input type="checkbox"/> Other	
<b>Date Effective:</b> <b>14-Jun-2006</b>			
<b>Contact:</b> Geoffrey Cortes <b>Title:</b> Product Quality Assurance <b>Phone #:</b> (408) 284-8321 <b>Fax #:</b> (408) 284-1450 <b>E-mail:</b> <a href="mailto:Geoffrey.Cortes@idt.com">Geoffrey.Cortes@idt.com</a>		<b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Samples:</b> Please contact your local sales representative for sample request & availability.	
<b>DESCRIPTION AND PURPOSE OF CHANGE:</b>			
<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other		This notification is to amend solder ball composition that was inadvertently written as 95.5Sn/4Ag/0.5Cu in PCN# A-0602-04, published in 16-Mar-2006.  The correct solder ball composition is 96.5Sn/3Ag/0.5Cu.  There is no change in the PCN affectivity date.	
<b>RELIABILITY/QUALIFICATION SUMMARY:</b>			
There is no expected change to the product quality or reliability performance.			
<b>CUSTOMER ACKNOWLEDGMENT OF RECEIPT:</b>			
IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable. IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.			
<b>Customer:</b> _____		<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>	
<b>Name/Date:</b> _____		<b>E-Mail Address:</b> _____	
<b>Title:</b> _____		<b>Phone# /Fax# :</b> _____	
<b>CUSTOMER COMMENTS:</b> _____			
<b>IDT ACKNOWLEDGMENT OF RECEIPT:</b>			
<b>RECD. BY:</b> _____		<b>DATE:</b> _____	



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA - 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : A-0602-04R1

**PCN Type:** Manufacturing Site - Alternate Assembly Location  
**Data Sheet Change:** None  
No change in moisture sensitivity level (MSL)

#### Detail Of Change:

This notification is to advise our customers that IDT has qualified STATSChipPAC in Korea as an alternate assembly facility for 655L, 24.5x19.5mm FCBGA package using the assembly material set as listed in the Table 1.

There is no change in the moisture sensitive level (MSL) as a result of this change.

Attachment I outlines the qualification data and the affected part # list.

A revised PCN is being issued to correct the solder ball composition. Please refer to Table 1 for details.

Table 1

Description	Existing	Add
Assembly Location	Amkor, Philippines and Korea	STATSChipPAC, Korea
Assembly Material	95Pb/5Sn (High Pb bump), NAU6 (Underfill), 96.5Sn/3Ag/0.5Cu (Solder Ball)	95Pb/5Sn (High Pb bump), CRP-4152RA (Underfill), 96.5Sn/3Ag/0.5Cu (Solder Ball)

#### Sample Availability:

Samples are already available for customer evaluation.

Please contact your local IDT sales representative for your sample request and availability.



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA - 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : A-0602-04R1

#### Qualification Information and Qualification Tests Result:

Test Vehicles: **1681L, 42.5mm FCBGA (3 assembly lots)**

Test Description	Test Method	Sample Size / # of Fails	Test Results (SS/Rej)
* Temperature Cycling (Cond B, 1000 cycles)	JESD22-A104-B	45/0	45/0
* HAST (130°C/85% RH, unbiased, 100 hours)	JESD22-A102-C	45/0	45/0
** High Temperature Stabilization Bake (150 °C, 1000 hours)	JESD22-A103-C	77/0	77/0

**Notes:**     \* Test requires moisture pre-conditioning sequence per JESD22-A113C.  
                 \*\* One assembly lot

### Affected Part #s

IDTAMB0480A5RH  
IDTAMB0480A5RJ