	nology, Inc. ey Road, San Jose, CA - 95138 CHANGE NOTICE (PCN)		
PCN #: A1402-01 DATE 5-Mar-20	14 MEANS OF DISTINGUISHING CHANGED DEVICES:		
Product Affected: 27.0mm x 27.0mm FCBGA-676 Refer to Attachment II for the affected part numbers	 Product Mark Back Mark Lot# will have a "AT" prefix to denote alternate site, Amkor Taiwan. Other 		
Date Effective: 4-Jun-2014			
Contact: IDT PCN DESK	Attachment: Yes No		
E-mail: pcndesk@idt.com	Samples: Please contact your local sales representative for sample request & availability.		
DESCRIPTION AND PURPOSE OF CHANGE:			
□ Wafer Fabrication Process as an alternate asse □ Assembly Process types. The die bum □ Equipment material will be NA	cation is to advise our customers that IDT is adding Amkor, Taiwan (ATT) ate assembly facility for the selective devices of the FCBGA package die bump material used at ATT will be Eutectic bump and the underfill ll be NAU-27.		
8	to the moisture performance.		
	Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.		
RELIABILITY/QUALIFICATION SUMMARY:			
Refer to qualification data shown in attachment I.			
CUSTOMER ACKNOWLEDGMENT OF RECEIPT:			
IDT records indicate that you require written notification of the to grant approval or request additional information. If IDT doe it will be assumed that this change is acceptable. IDT reserves the right to ship either version manufactured after on the earlier version has been depleted.	es not receive acknowledgement within 30 days of this notice		
Customer:	□ Approval for shipments prior to effective date.		
Name/Date:	E-Mail Address:		
Title:	Phone# /Fax# :		
CUSTOMER COMMENTS:			
IDT ACKNOWLEDGMENT OF RECEIPT:			
RECD. BY:	DATE:		



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1402-01

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 is adding Amkor, Taiwan (ATT) as an alternate assembly facility for the selective devices of the FCBGA package types. The die bump material used at ATT will be Eutectic bump and the underfill material will be NAU-27.

The material sets used at Amkor, Taiwan are qualified IDT materials.

There is no change to the moisture performance of these packages using the assembly material sets as listed in the below table.

		Existing	Add
Package Type	Material Set / Assembly	Amkor, Philippines (ATP	Amkor, Taiwan (ATT)
BR676	Heat spreader thermo grease	TTG3	SHA-1
	Adhesive	DCL-4	DCL-4
	Die bump	95Pb5Sn (High Pb)	63Sn37Pb
	Underfill	NAU-8	NAU-27
	Substrate	ABF GX13/ E679 core	ABF GX13/ E679 core
	Solder balls	Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5
RM676	Heat spreader thermo grease	N/A	N/A
	Adhesive	N/A	N/A
	Die bump	95Pb5Sn (High Pb)	63Sn37Pb
	Underfill	NAU-8	NAU-27
	Substrate	ABF GX13/ E679 core	ABF GX13/ E679 core
	Solder balls	Sn96.5/Ag3.0/Cu0.5	Sn96.5/Ag3.0/Cu0.5

Table 1: Assembly Material Sets for the Existing Assembly & Alternate Assembly



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A1402-01

Qualification Test Plans and Results :

Qual Plan & Results: The qualification was performed in accordance with JEDEC47 recommended tests.

Qual Vehicle: 19.0mm x 19.0mm FCBGA-324 (3 lots) and 27.0mm x 27.0mm FCBGA-676 (1 lot)

		Test Results (SS / Rej)			
Test Description	Test Method	Lot 1	Lot 2	Lot 3	Lot 4
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	30/0	30/0	30/0	30/0
* Temperature Humidity Biased (85 °C/85% RH, 1000 Hrs)	JESD22-A101	25/0	25/0	25/0	25/0
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	30/0	30/0	30/0	30/0
High Temp. Storage Test (150 °C, 1000 Hrs)	JESD22-A103	30/0	30/0	30/0	30/0
Solder Ball Shear Test (1000 Hrs)	JESD22-B117	5/0	5/0	5/0	-
External Visual Inspection	JESD22-B101	25/0	25/0	25/0	25/0
X-ray Examination	IDT Spec MAC-3012	45/0	45/0	45/0	45/0

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 prior to stress test



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN # : A1402-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
80KSW0005BR	80KSW0005BRI	80KSW0005RM	80KSW0005RMI
80KSW0005BR8	80KSW0005BRI8	80KSW0005RM8	80KSW0005RMI8