



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

<p>PCN #: A1303-01 DATE: 21-May-2014</p> <p>Product Affected: 19.0mm x 19.0mm FCBGA-324 23.0mm x 23.0mm FCBGA-484 25.0mm x 25.0mm FCBGA-576 27.0mm x 27.0mm FCBGA-676 35.0mm x 35.0mm FCBGA-1156</p> <p style="text-align: center;">Refer to Attachment II for the affected part numbers</p> <p>Date Effective: 21-Aug-2014</p>	<p>MEANS OF DISTINGUISHING CHANGED DEVICES:</p> <p><input type="checkbox"/> Product Mark</p> <p><input type="checkbox"/> Back Mark Assembly lot marked on the device</p> <p><input type="checkbox"/> Date Code provides traceability to the material</p> <p><input checked="" type="checkbox"/> Other used</p>
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<p>Contact: IDT PCN DESK</p> <p>E-mail: pcndesk@idt.com</p>	<p>Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Samples: Please contact your local sales representative for sample request & availability.</p>
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology	This notification is to advise our customers that the underfill material will be changed from SEU-1 to NAU-27 for the affected packages assembled in Amkor Philippines.
<input type="checkbox"/> Wafer Fabrication Process	
<input type="checkbox"/> Assembly Process	
<input type="checkbox"/> Equipment	There is no change to the moisture performance.
<input checked="" type="checkbox"/> Material	
<input type="checkbox"/> Testing	Attachment I details the qualification data for this change and
<input type="checkbox"/> Manufacturing Site	Attachment II shows the affected list of part numbers.
<input type="checkbox"/> Data Sheet	
<input type="checkbox"/> Other	

RELIABILITY/QUALIFICATION SUMMARY:

Refer to qualification data shown in attachment I.

CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

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.

Customer: _____	<input type="checkbox"/> Approval for shipments prior to effective date.
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____
CUSTOMER COMMENTS: _____	

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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ATTACHMENT I - PCN # : A1303-01

PCN Type: Change of Materials
Data Sheet Change: None
No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to advise our customers that the underfill material will be changed from SEU-1 to NAU-27 for the list of affected packages assembled in Amkor Philippines.

There is no change to the moisture performance of these packages.

Change of Material Sets at Amkor Philippines

Material	From	To
Underfill	SEU-1	NAU-27



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ATTACHMENT I - PCN # : A1303-01

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)

Test Description	Test Method	Test Results (SS / Rej)		
		Lot 1	Lot 2	Lot 3
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	30/0	30/0	30/0
* Temperature Cycle / Condition B (-55 °C to +125 °C, 700 Cyc)	JESD22-A104	30/0	30/0	30/0

Note:

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



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ATTACHMENT II - PCN # : A1303-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
89H48T12G2ZBBLI8	89H64H16G2ZDBL	89HPES24T3G2ZEALG	89HPES4T4G2ZBALGI
89H48T12G2ZCBL	89H64H16G2ZDBLG	89HPES24T3G2ZEALGI	89HPES4T4G2ZBALGI8
89H48T12G2ZCBL8	89H64H16G2ZDBLGI	89HPES24T3G2ZFALG	89HPES4T4G2ZBALI
89H48T12G2ZCBLG	89H64H16G2ZDBLI	89HPES24T3G2ZFALGI	89HPES4T4G2ZBALI8
89H48T12G2ZCBLG8	89HI0524G2PSZAALG	89HPES24T6G2ZAAL	89HPES4T4G2ZCAL
89H48T12G2ZCBLGI	89HI0524G2PSZAALG8	89HPES24T6G2ZAAL8	89HPES4T4G2ZCAL8
89H48T12G2ZCBLGI8	89HI0524G2PSZBALG	89HPES24T6G2ZAALG	89HPES4T4G2ZCALG
89H48T12G2ZCBLI	89HI0524G2PSZBALG8	89HPES24T6G2ZAALG8	89HPES4T4G2ZCALG8
89H48T12G2ZCBLI8	89HI0524G2PSZCALG	89HPES24T6G2ZAALGI	89HPES4T4G2ZCALGI
89H48T12G2ZDBL	89HI0524G2PSZCALG8	89HPES24T6G2ZAALI	89HPES4T4G2ZCALGI8
89H48T12G2ZDBL8	89HPES16T4AG2ALGI	89HPES24T6G2ZAALI8	89HPES4T4G2ZCALI
89H48T12G2ZDBLG	89HPES16T4AG2ALGI8	89HPES24T6G2ZAAR	89HPES4T4G2ZCALI8
89H48T12G2ZDBLG8	89HPES16T4AG2ZAAL	89HPES24T6G2ZAAR8	89HPES6T6G2ZAAL
89H48T12G2ZDBLGI	89HPES16T4AG2ZAAL8	89HPES24T6G2ZBAL	89HPES6T6G2ZAAL8
89H48T12G2ZDBLGI8	89HPES16T4AG2ZAALG	89HPES24T6G2ZBAL8	89HPES6T6G2ZAALG
89H48T12G2ZDBLI	89HPES16T4AG2ZAALI	89HPES24T6G2ZBALG	89HPES6T6G2ZAALG8
89H48T12G2ZDBLI8	89HPES16T4AG2ZBAL	89HPES24T6G2ZBALG8	89HPES6T6G2ZAALGI
89H64H16AG2ZABL	89HPES16T4AG2ZBAL8	89HPES24T6G2ZBALGI	89HPES6T6G2ZAALGI8
89H64H16AG2ZABLG	89HPES16T4AG2ZBALG	89HPES24T6G2ZBALI	89HPES6T6G2ZAALI
89H64H16AG2ZABLGI	89HPES16T4AG2ZBALI	89HPES24T6G2ZBALI8	89HPES6T6G2ZAALI8
89H64H16AG2ZABLI	89HPES16T4AG2ZCAL	89HPES24T6G2ZBAR	89HPES6T6G2ZBAL
89H64H16AG2ZBBL	89HPES16T4AG2ZCAL8	89HPES24T6G2ZBAR8	89HPES6T6G2ZBAL8
89H64H16AG2ZBBLG	89HPES16T4AG2ZCALG	89HPES24T6G2ZCAL	89HPES6T6G2ZBALG
89H64H16AG2ZBBLGI	89HPES16T4AG2ZCALI	89HPES24T6G2ZCAL8	89HPES6T6G2ZBALG8
89H64H16AG2ZBBLI	89HPES24T3G2ZAAL	89HPES24T6G2ZCALG	89HPES6T6G2ZBALGI
89H64H16AG2ZCBL	89HPES24T3G2ZAAL8	89HPES24T6G2ZCALG8	89HPES6T6G2ZBALGI8
89H64H16AG2ZCBLG	89HPES24T3G2ZAALG	89HPES24T6G2ZCALGI	89HPES6T6G2ZBALI
89H64H16AG2ZCBLGI	89HPES24T3G2ZAALG8	89HPES24T6G2ZCALI	89HPES6T6G2ZBALI8
89H64H16AG2ZCBLI	89HPES24T3G2ZAALGI	89HPES24T6G2ZCALI8	89HPES6T6G2ZCAL
89H64H16AG2ZDBL	89HPES24T3G2ZAALI	89HPES24T6G2ZEALG	89HPES6T6G2ZCAL8
89H64H16AG2ZDBLG	89HPES24T3G2ZAALI8	89HPES24T6G2ZEALGI	89HPES6T6G2ZCALG
89H64H16AG2ZDBLGI	89HPES24T3G2ZBAL	89HPES24T6G2ZFALG	89HPES6T6G2ZCALG8
89H64H16AG2ZDBLI	89HPES24T3G2ZBAL8	89HPES24T6G2ZFALGI	89HPES6T6G2ZCALGI
89H64H16G2ZABL	89HPES24T3G2ZBALG	89HPES4T4G2ZAAL	89HPES6T6G2ZCALGI8
89H64H16G2ZABLG	89HPES24T3G2ZBALG8	89HPES4T4G2ZAAL8	89HPES6T6G2ZCALI
89H64H16G2ZABLGI	89HPES24T3G2ZBALGI	89HPES4T4G2ZAALG	89HPES6T6G2ZCALI8
89H64H16G2ZABLI	89HPES24T3G2ZBALI	89HPES4T4G2ZAALG8	
89H64H16G2ZBBL	89HPES24T3G2ZBALI8	89HPES4T4G2ZAALGI	
89H64H16G2ZBBLG	89HPES24T3G2ZCAL	89HPES4T4G2ZAALGI8	
89H64H16G2ZBBLGI	89HPES24T3G2ZCAL8	89HPES4T4G2ZAALI	
89H64H16G2ZBBLI	89HPES24T3G2ZCALG	89HPES4T4G2ZAALI8	
89H64H16G2ZCBL	89HPES24T3G2ZCALG8	89HPES4T4G2ZBAL	
89H64H16G2ZCBLG	89HPES24T3G2ZCALGI	89HPES4T4G2ZBAL8	
89H64H16G2ZCBLGI	89HPES24T3G2ZCALI	89HPES4T4G2ZBALG	
89H64H16G2ZCBLI	89HPES24T3G2ZCALI8	89HPES4T4G2ZBALG8	