



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A1711-02</b> Product Affected: TQFP-128 (Refer to Attachment II for the affected part numbers)  Date Effective: <b>13-Feb-2018</b>	DATE: <b>13-Nov-2017</b>	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark      Lot # will have: <input type="checkbox"/> Date Code      "GR" prefix for Greatek, Taiwan <input type="checkbox"/> Other
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Contact: IDT PCN DESK  E-mail: <a href="mailto:pcndesk@idt.com">pcndesk@idt.com</a>	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Samples: Please contact your local sales representative for sample request.
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**DESCRIPTION AND PURPOSE OF CHANGE:**

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input checked="" type="checkbox"/> Material <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other	<p>This notification is to advise our customers that IDT is adding Greatek, Taiwan as an alternate assembly facility for parts that are currently assembled at Amkor Philippines.</p> <p>There is no change to the moisture performance.</p> <p>Attachment I details the qualification results and Attachment II shows the affected list of part numbers.</p>
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**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"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

**CUSTOMER COMMENTS:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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### ATTACHMENT I - PCN # : A1711-02

**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 Greatek, Taiwan as an alternate assembly facility for parts that are currently assembled at Amkor Philippines.

The material set details of the current and the alternate assembly location is as shown in Table 1.

There is no change to the moisture performance.

Table 1: Assembly Material Sets for The Existing and Alternate Assembly Location

	Existing Assembly (Amkor, Philippines)	Alternate Assembly (Greatek, Taiwan)
Die Attach	3230	CRM1076
Bond Wire	Gold wire	Gold wire
Mold Compound	G700Y	G700H



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### ATTACHMENT I - PCN # : A1711-02

#### Qualification Information and Qualification Data:

**Affected Packages:** TQFP-128

**Assembly Material:** Shown on page 2 of this attachment.

**Qual Plan & Results:** Tests are in accordance with JEDEC47 recommended tests.

**Qualification Vehicle:** TQFP-128

Test Description	Test Method	Test Results (Rej / SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to 125°C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (Vccmax, 130 °C/85% RH, 96 Hrs)	JESD22-A110	0/25	0/25	0/25
High Temperature Storage Bake (150°C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
X Ray	IDT Spec. MAC- 3012	0/45	0/45	0/45
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	-

\* Tests were subjected to Preconditioning per JESD22-A113 prior to stress test



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN # : A1711-02

Part Number	Part Number	Part Number	Part Number
89HMPEB383ZAEMG	89HMPEB383ZBEMG	89HPEB383ZAEMG	89HPEB383ZBEMG
89HMPEB383ZAEMG8	89HMPEB383ZBEMG8	89HPEB383ZAEMG8	89HPEB383ZBEMG8