



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> <b>A0710-02</b> <b>DATE:</b> <b>14-Dec-2007</b> <b>Product Affected:</b> 28mm x 28mm MQFP-208 (Standard and Green) Refer to Attachment II for the affected part numbers <b>Date Effective:</b> <b>14-Mar-2008</b>	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark                      Lot # will have a "P" prefix <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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<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.
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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 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 changing the assembly of 28mm x 28mm MQFP-208 both standard and green version from AMKOR , Korea to AMKOR, Philippines. There is no change to the moisture performance of these packages.</p> <p>Attachment I details the qualification data for this change 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"/> <b><i>Approval for shipments prior to effective date.</i></b>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

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

\_\_\_\_\_

\_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

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



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## **PRODUCT/PROCESS CHANGE NOTICE (PCN)**

### **ATTACHMENT I - PCN # : A0710-02**

**PCN Type:** Manufacturing Site - Change of 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 changing the assembly of 28mm x 28mm MQFP- 208 both standard and green version from AMKOR, Korea to AMKOR,Philippines. There is no change to the moisture performance of these packages using the assembly material set as listed in the tables under each group.

There is no change in the moisture sensitivity level (MSL).

Attachment II shows the affected part numbers.

#### **Sample Availability:**

Samples for each package type are available for customer evaluation, but may not be available for all devices.

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



## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN # : A0710-02

**Qualification Information and Qualification Data:**

**Affected Packages:** MQFP  
28mm x 28mm 208

**Assembly Material:** See Table below

Description	Existing	Change To
Assembly Location	AMKOR, Korea	AMKOR, Philippines
Assembly Materials	Die Attach: Ablestik 3230	3230
	Wire: Au wire	Au wire
	Mold Compound: G700M	G700M
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Sn/Pb (standard) and matte 100% Sn (green)	Sn/Pb (standard) and matte 100% Sn (green)

**Qualification Plan #:** P07-10-01

**Test Vehicle:** 28mm x 28mm MQFP-208

**Qualification Test Plan and Results:**

Test Description	Test Method	Test Results (SS/Rej)
* Temperature Cycling (Cond B, 1000 cycles)	JESD22-A104	77/0
* Auto Clave (121°C, 100% RH, 96 hours)	JESD22-A102	77/0
Unbiased HAST (130 °C, 85% RH Unbiased, 50 hours)	JESD22-A118	77/0
High Temperature Stabilization Bake (150 °C, 1000 hours)	JESD22-A103	77/0

**Notes:** \* Test requires moisture pre-conditioning sequence per JESD22-A113.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN # : A0710-02

#### Affected Part Number

Part Number	Part Number	Part Number	Part Number
IDT49C465APQF	IDT70V3589S166DR	IDT7290820PQF	IDT79RC64V475-250DP
IDT49C465PQF	IDT70V3589S166DRG	IDT7290820PQFG	IDT79RC64V475-250DPI
IDT70T3519S133DR	IDT70V3599S133DR	IDT72V70200PQF	IDT79RV4640-100DU
IDT70T3519S133DRI	IDT70V3599S133DRGI	IDT72V71660DR	IDT79RV4640-133DU
IDT70T3519S166DR	IDT70V3599S133DRI	IDT72V73263DR	IDT79RV4640-133DUG
IDT70T3519S166DRI	IDT70V3599S166DR	IDT72V73273DR	IDT79RV4640-150DU
IDT70T3589S133DR	IDT70V3599S166DRG	IDT72V90823PQF	IDT79RV4640-150DUG
IDT70T3589S133DRI	IDT70V657S10DR	IDT72V90823PQFG	IDT79RV4640-180DU
IDT70T3589S166DR	IDT70V657S10DRG	IDT77252L155PG	IDT79RV4640-180DUG
IDT70T3599S133DR	IDT70V657S12DR	IDT77252L155PGG	IDT79RV4640-200DU
IDT70T3599S133DRI	IDT70V657S12DRI	IDT77V1254L25PGI	IDT79RV4640-200DUG
IDT70T3599S166DR	IDT70V657S15DR	IDT77V1264L200PGI	IDT79RV4640-267DU
IDT70T3599S166DRG	IDT70V658S10DR	IDT77V400S155DS	IDT79RV4640-267DUG
IDT70T651S10DR	IDT70V658S10DRG	IDT77V400S156DS	IDT79RV4650-100DP
IDT70T651S12DR	IDT70V658S12DR	IDT79R4640-100DZ	IDT79RV4650-133DP
IDT70T651S12DRI	IDT70V658S12DRG	IDT79R4640-133DZ	IDT79RV4650-150DP
IDT70T651S15DR	IDT70V658S12DRGI	IDT79R4650-100DP	IDT79RV4650-180DP
IDT70T659S10DR	IDT70V658S12DRI	IDT79R4650-133DP	IDT79RV4650-200DP
IDT70T659S12DR	IDT70V658S15DR	IDT79R4700-100DP	IDT79RV4650-267DP
IDT70T659S12DRI	IDT70V659S10DR	IDT79R4700-133DP	IDT79RV4700-100DP
IDT70T659S15DR	IDT70V659S10DRG	IDT79R4700-80DP	IDT79RV4700-133DP
IDT70V3569S4DR	IDT70V659S12DR	IDT79RC32V134-DS	IDT79RV4700-150DP
IDT70V3569S4DRG	IDT70V659S12DRI	IDT79RC64T574-200DZ	IDT79RV4700-175DP
IDT70V3569S5DR	IDT70V659S15DR	IDT79RC64T574-200DZI	IDT79RV4700-200DP
IDT70V3569S5DRGI	IDT70V7519S133DR	IDT79RC64T574-250DZ	IDT7MP4036S20M
IDT70V3569S5DRI	IDT70V7519S133DRI	IDT79RC64T574-250DZI	IDT7MP4045S15M
IDT70V3569S6DR	IDT70V7519S166DR	IDT79RC64T575-200DP	IDT7MP4145S15M
IDT70V3569S6DRI	IDT70V7519S166DRI	IDT79RC64T575-250DP	IDT821054PQF
IDT70V356S12DR	IDT70V7519S200DR	IDT79RC64T575-250DPI	IDT821054PQFG
IDT70V3579S4DR	IDT70V7589S133DR	IDT79RC64V474-180DZ	IDT821064PQF
IDT70V3579S4DRG	IDT70V7589S166DR	IDT79RC64V474-180DZI	IDT82V2048EDR
IDT70V3579S5DR	IDT70V7589S166DRG	IDT79RC64V474-200DZ	IDT82V2088DR
IDT70V3579S5DRI	IDT70V7589S200DR	IDT79RC64V474-200DZI	IDT82V2088DRG
IDT70V3579S6DR	IDT70V7599S133DR	IDT79RC64V474-250DZ	IDT82V8313DS
IDT70V3579S6DRI	IDT70V7599S133DRI	IDT79RC64V475-180DP	IDT82V8313DSG
IDT70V3589S133DR	IDT70V7599S166DR	IDT79RC64V475-180DPI	IDTAS4624DZG
IDT70V3589S133DRG	IDT70V7599S166DRI	IDT79RC64V475-200DP	
IDT70V3589S133DRI	IDT70V7599S200DR	IDT79RC64V475-200DPI	

Notes: For T & R (shipping method) "8" suffix is added to the IDT part# respectively.