



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A1007-04** DATE: **August 11, 2010**
 Product Affected: **10.0mm x 10.0mm x 1.4mm TQFP-44**
 (Standard & Green)
 Date Effective: **November 11, 2010**

MEANS OF DISTINGUISHING CHANGED DEVICES:
 Product Mark
 Back Mark Assembly lot # will have a "P" prefix
 Date Code
 Other

Contact: Mary Vesey
 Title: Director, Product Assurance Attachment: Yes No
 Phone #: (408) 284-4565
 Fax #: (408) 284-1450 Samples: Availability shown on request
 E-mail: Mary.Vesey@idt.com

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 adding Amkor, Philippines as an alternate assembly facility for the above mentioned package type. There is no change to the moisture performance of this package.</p> <p>Attachment I details the qualification data for this change
 Attachment II details the affected part number list.</p> |
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RELIABILITY/QUALIFICATION SUMMARY:

Please refer to the attached Qualification & reliability data.

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.

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: _____



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ATTACHMENT I - PCN # : A1007-04

PCN Type: Manufacturing Site

Data Sheet Change: No change
No change in moisture sensitivity level (MSL)

Details Of Change:

This notification is to advise our customers that IDT is adding Amkor, Philippines as an alternate assembly facility for the above mentioned package type. There is no change to the moisture performance of this package using the assembly material sets as listed in the below table.

Qualification Information and Qualification Data:

Affected Packages: 10.0mm x 10.0mm x 1.4mm TQFP-44 (PP/PPG44)

Assembly Material: See Table below

Description	Existing	Add
Assembly Location	Amkor, Korea	Amkor, Philippines
Assembly Materials	Die Attach: Ablestik 3230	Ablestik 3230
	Wire: Au wire	Au wire
	Mold Compound: Sumitomo G700L	Sumitomo G700L
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Sn/Pb (standard) and matte 100% Sn (green)	Plating: Sn/Pb (standard) and matte 100% Sn (green)



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ATTACHMENT I - PCN # : A1007-04

Qualification Test Plans and Results :

Qual Vehicle: 10.0mm x 10.0mm x 1.0mm TQFP-64 (3 lots)

Test Description	Test Method	Test Results (SS / Rej)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 96 Hours)	JESD22-A110	77/0, 77/0, 77/0
* Temperature Cycle (-65 °C to +150 °C, 500 Cycles)	JESD22-A104	77/0, 77/0, 77/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	77/0, 77/0, 77/0

Note:

* Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.



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ATTACHMENT II - PCN # : A1007-04

Affected Part Number

Part Number	Part Number	Part Number	Part Number
5T93GL101PFGI	5T995PFI8	821024PPG8	82V2081PP
5T93GL101PFGI8	5T995PPGI	82V2041EPP	82V2081PP8
5T93GL101PFI	5T995PPGI8	82V2041EPP8	82V2081PPG
5T93GL101PFI8	5V995PFGI	82V2041EPPG	82V2081PPG8
5T995APFI	5V995PFGI8	82V2041EPPG8	82V9631PP
5T995APFI8	5V995PFI	82V2051EPP	82V9631PP8
5T995APPGI	5V995PFI8	82V2051EPP8	82V9631PPG
5T995APPGI8	821024PP	82V2051EPPG	82V9631PPG8
5T995PFI	821024PPG	82V2051EPPG8	