



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **SG0706-01** DATE: **7/27/2007**

Product Affected: QFN 48 (Green)
(See attached affected part # list)

Date Effective: **10/27/2007**

MEANS OF DISTINGUISHING CHANGED DEVICES:

☐ Product Mark

☐ Back Mark

☐ Date Code

☒ Other Assembly lot # will have a "U" prefix

Contact: Bimla Paul

Title: Product Quality Assurance

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Attachment: ☒ Yes ☐ No

Samples: Please contact your local sales representative for sample request & availability.

DESCRIPTION AND PURPOSE OF CHANGE:

- ☐ Die Technology
- ☐ Wafer Fabrication Process
- ☐ Assembly Process
- ☐ Equipment
- ☐ Material
- ☐ Testing - Test Location
- ☒ Manufacturing Site
- ☐ Data Sheet
- ☐ Other

This notification is to advise our customers that IDT has added UTL (Thailand) as an alternate Assembly facility for QFN 48 green package.

There is no change to the moisture performance of the package as a result of this change.

Please see attached for the qualification data and affected part number list.

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 until the inventory on the earlier version has been depleted.

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 # : SG0706-01

PCN Type: Manufacturing Site - Alternate Assembly

Data Sheet Change: None

No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to advise our customers that IDT has added UTL (Thailand) as an alternate Assembly facility for QFN 48 green package. The assembly material set for UTL (Thailand) assembly location is listed in Table 1.

UTL (Thailand) will provide assembly only. Production test, packing, and shipping will be done by UTAC (Singapore). QFN 48 green package may be assembled at ASE-CL or UTAC (Singapore) or UTL (Thailand). The UTAC (Singapore) / UTL (Thailand) combination is intended to become the primary manufacturing flow for the QFN 48 green package.

There is no change in the moisture sensitivity level (MSL) as a result of this change.

Attachment I outlines the qualification data and affected part#s.

Table 1

Description	Existing			Alternate
Assembly Location	UTAC (Singapore)		ASE-CL	UTL (Thailand)
Assembly Material	Die Attach	Ablebond 3230	Hitachi EN4900	Ablestik 8200
	Wire	Au	Au	Au
	Mold Compound	Sumitomo G700	EME-G770	EME-G770
	Plating	100% Sn	100% Sn	100% Sn



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ATTACHMENT I - PCN # : SG0706-01

Qualification Information and Qualification Tests Result:

Test Vehicles: 7 x 7 mm QFN 48L (3 lots)

Test Description	Test Method	Test Results (SS/Rej)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-65 °C to +150 °C, 500 cycles)	JESD22-A104	80/0	80/0	80/0
* Auto Clave (121 °C / 100% RH, 96 hours)	JESD22-A102	80/0	80/0	80/0
* HAST (130 °C / 85% RH, 96 hours)	JESD22-A110	80/0	80/0	80/0
High Temperature Stabilization Bake (150 °C, 504 hours)	JESD22-A103	80/0	N/A	N/A

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

Sample Availability

Please contact your local sales representative for sample request & availability.



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ATTACHMENT II - PCN #: SG0706-01

Affected Part Number

Part Number	Part Number	Part Number	Part Number
STAC9204D3NBEB2X	STAC9204X5NBEB2X	STAC9205X3NBEB2X	92HD005DX5NLGXB2X
STAC9204D5NBEB2X	STAC9205D3NBEB2X	STAC9205X5NBEB2X	92HD005XX3NLGXB2X
STAC9204X3NBEB2X	STAC9205D5NBEB2X	92HD005DX3NLGXB2X	92HD005XX5NLGXB2X

Notes: For T & R shipping method, "R" and "8" suffix is added to the part # starting with 'ST' and '92HD' respectively.