



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A-0607-01	DATE: 10/6/2006	MEANS OF DISTINGUISHING CHANGED DEVICES: <input checked="" type="checkbox"/> Product Mark Mark location will have an 'Z' code <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other
Product Affected: 28L, 32L, 44L SOJ Packages (Standard and Green)		
Date Effective: 1/6/2007		

Contact: Geoffrey Cortes Title: Product Quality Assurance Phone #: (408) 284-8321 Fax #: (408) 284-1450 E-mail: Geoffrey.Cortes@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: 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 adding Lingsen, Taiwan as an alternate assembly facility for 28L, 32L and 44L SOJ packages, for both standard and green products. 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"/> <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: _____



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A-0607-01

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 Lingsen, Taiwan as an alternate assembly facility for 28L, 32L and 44L SOJ packages, for both standard and green products using the assembly material set as listed in Table 1.

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

Table 1

Description	Existing	Add
Assembly Location	ASE-Kaohsiung, OSE Philippines	Lingsen, Taiwan
Assembly Material	Die Attach: 8390/Ablestik 2288A	Die Attach: CRM-1033BF
	Wire: M3 1.3/GL2 1.0 mil Au/1.2 mil Au	Wire: 1.3 mil Au
	Mold Compound: Sumitomo EME-G600 series/Sumiitomo EME-G700A	Mold Compound: Sumitomo EME-G600
	Lead Frame: Copper Alloy	Same
	Plating: Sn/Pb (standard) and matte 100% Sn (green)	Same

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.



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ATTACHMENT I - PCN # : A-0607-01

Qualification Information and Qualification Data:

Test Vehicle: 44L, SOJ 400mil (Green), 1 lot

Test Description	Test Method	Test Result (SS/Rej)
* Temperature Cycling (-65°C to +150°C, 500 cycles)	JESD22-A104	22/0
* HAST (130°C/85% RH, 100 hours)	JESD22-A110	22/0
* Pressure Cooker (121°C/100% RH, 168 hours)	JESD22-A102	22/0
* High Temperature Stabilization Bake (150°C, 1000 hours)	JESD22-A103	22/0

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

Tin Whisker Test Data

Test Vehicle: 32L SOJ and 100L 14x20mm TQFP

Test Description	Test Condition	Test Duration	Spec Limits	Test Results (SS/Rej)
Storage Test	25°C/30% - 80% RH	0, 1000, 2000 hours	40µm max.	9/0
Aging	60°C / 90% RH	0, 1000, 2000 hours	40µm max.	9/0
Temperature Cycling	-55°C to +85°C	0, 500 cycles	40µm max.	9/0

Note: The 100L 14x20mm TQFP and 32L SOJ uses the same leadframe allow material and plating chemistry.



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ATTACHMENT II - PCN # : A-0607-01

Affected Part Number

IDT Part Number	IDT Part Number	IDT Part Number	IDT Part Number
IDT61298SA12Y	IDT71028S12Y	IDT71256SA12YGI	IDT71T016SA20YI
IDT61298SA12YG	IDT71028S12YG	IDT71256SA12YI	IDT71V016SA10Y
IDT61298SA15Y	IDT71028S12YI	IDT71256SA15Y	IDT71V016SA10YG
IDT61298SA15YG	IDT71028S15Y	IDT71256SA15YG	IDT71V016SA10YGI
IDT71016S12Y	IDT71028S15YG	IDT71256SA15YGI	IDT71V016SA10YI
IDT71016S12YG	IDT71028S15YGI	IDT71256SA15YI	IDT71V016SA12Y
IDT71016S12YGI	IDT71028S15YI	IDT71256SA20Y	IDT71V016SA12YG
IDT71016S12YI	IDT71028S20Y	IDT71256SA20YG	IDT71V016SA12YGI
IDT71016S15Y	IDT71028S20YG	IDT71256SA20YGI	IDT71V016SA12YI
IDT71016S15YG	IDT71028S20YGI	IDT71256SA20YI	IDT71V016SA15Y
IDT71016S15YGI	IDT71028S20YI	IDT71256SA25Y	IDT71V016SA15YG
IDT71016S15YI	IDT71124S12Y	IDT71256SA25YG	IDT71V016SA15YGI
IDT71016S20Y	IDT71124S12YG	IDT71256SA25YI	IDT71V016SA15YI
IDT71016S20YG	IDT71124S12YGI	IDT7164L15Y	IDT71V016SA20Y
IDT71016S20YGI	IDT71124S12YI	IDT7164L15YG	IDT71V016SA20YG
IDT71016S20YI	IDT71124S15Y	IDT7164L15YGI	IDT71V016SA20YGI
IDT71024S12TY	IDT71124S15YG	IDT7164L15YI	IDT71V016SA20YI
IDT71024S12TYG	IDT71124S15YGI	IDT7164L20Y	IDT71V124S15Y
IDT71024S12TYGI	IDT71124S15YI	IDT7164L20YG	IDT71V124S20Y
IDT71024S12TYI	IDT71124S20Y	IDT7164L20YGI	IDT71V124SA10TY
IDT71024S12Y	IDT71124S20YG	IDT7164L20YI	IDT71V124SA10TYG
IDT71024S12YG	IDT71124S20YGI	IDT7164L25YG	IDT71V124SA10TYGI
IDT71024S12YGI	IDT71124S20YI	IDT7164L25YGI	IDT71V124SA10TYI
IDT71024S12YI	IDT71128S12Y	IDT7164L25YI	IDT71V124SA10Y
IDT71024S15TY	IDT71128S12YG	IDT7164L35YG	IDT71V124SA10YG
IDT71024S15TYG	IDT71128S12YI	IDT7164L35YGI	IDT71V124SA10YGI
IDT71024S15TYGI	IDT71128S15Y	IDT7164S15Y	IDT71V124SA10YI
IDT71024S15TYI	IDT71128S15YG	IDT7164S15YG	IDT71V124SA12TY
IDT71024S15Y	IDT71128S15YI	IDT7164S15YGI	IDT71V124SA12TYG
IDT71024S15YG	IDT71128S20Y	IDT7164S15YI	IDT71V124SA12TYGI
IDT71024S15YGI	IDT71128S20YI	IDT7164S20Y	IDT71V124SA12TYI
IDT71024S15YI	IDT71256L20Y	IDT7164S20YG	IDT71V124SA12Y
IDT71024S20TY	IDT71256L20YG	IDT7164S20YGI	IDT71V124SA12YG
IDT71024S20TYG	IDT71256L20YGI	IDT7164S20YI	IDT71V124SA12YGI
IDT71024S20TYGI	IDT71256L25Y	IDT7164S25YG	IDT71V124SA12YI
IDT71024S20TYI	IDT71256L25YG	IDT7164S25YGI	IDT71V124SA15TY
IDT71024S20Y	IDT71256L25YGI	IDT7164S35YG	IDT71V124SA15TYG
IDT71024S20YG	IDT71256L25YI	IDT7164S35YGI	IDT71V124SA15TYGI
IDT71024S20YGI	IDT71256L35Y	IDT7164S35YI	IDT71V124SA15TYI
IDT71024S20YI	IDT71256L35YG	IDT71T016SA12Y	IDT71V124SA15Y
IDT71024S25TYG	IDT71256L35YGI	IDT71T016SA12YI	IDT71V124SA15YG
IDT71024S25TYGI	IDT71256L35YI	IDT71T016SA15Y	IDT71V124SA15YGI
IDT71024S25Y	IDT71256SA12Y	IDT71T016SA15YI	IDT71V124SA15YI
IDT71024S25YG	IDT71256SA12YG	IDT71T016SA20Y	IDT71V124SA20TY

Notes: For T & R (shipping method) "8" is added to the p/n.



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Affected Part Number

IDT Part Number	IDT Part Number	IDT Part Number	IDT Part Number
IDT71V124SA20TYG	IDT71V256SA15YG	IDT71V416L15YGI	IDT71V428L10YG
IDT71V124SA20TYGI	IDT71V256SA15YGI	IDT71V416L15YI	IDT71V428L10YGI
IDT71V124SA20TYI	IDT71V256SA15YI	IDT71V416S10Y	IDT71V428L12Y
IDT71V124SA20Y	IDT71V256SA20Y	IDT71V416S10YG	IDT71V428L12YI
IDT71V124SA20YI	IDT71V256SA20YG	IDT71V416S10YGI	IDT71V428L15Y
IDT71V256S10YG	IDT71V256SA20YGI	IDT71V416S10YI	IDT71V428L15YI
IDT71V256S12YG	IDT71V256SA20YI	IDT71V416S12Y	IDT71V428S10Y
IDT71V256SA10Y	IDT71V416L10Y	IDT71V416S12Y1	IDT71V428S10YI
IDT71V256SA10YG	IDT71V416L10YG	IDT71V416S12YG	IDT71V428S12Y
IDT71V256SA10YGI	IDT71V416L10YI	IDT71V416S12YGI	IDT71V428S12YI
IDT71V256SA10YI	IDT71V416L12Y	IDT71V416S12YI	IDT71V428S15Y
IDT71V256SA12Y	IDT71V416L12YG	IDT71V416S15Y	IDT71V428S15YI
IDT71V256SA12YG	IDT71V416L12YGI	IDT71V416S15YG	
IDT71V256SA12YGI	IDT71V416L12YI	IDT71V416S15YGI	
IDT71V256SA12YI	IDT71V416L15Y	IDT71V416S15YI	
IDT71V256SA15Y	IDT71V416L15YG	IDT71V428L10Y	

Notes: For T & R (shipping method) "8" is added to the p/n.