



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A0812-02 Product Affected: VFQFPN-16 and VFQFPN-28 (Standard and RoHS) Refer to Attachment II for the affected part numbers Date Effective: 9-Apr-2009	DATE: 9-Jan-2009	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark Lot # will have a "U" prefix. <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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Contact: Geoffrey Cortes Title: Product Quality 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 UTL, Thailand as an alternate assembly facility for VFQFPN-16 and VFQFPN-28, both standard and RoHS version. 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"/> Approval for shipments prior to effective date.
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 # : A0812-02

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 UTL, Thailand as an alternate assembly facility for VFQFPN-16 and VFQFPN-28, both standard and RoHS version. There is no change to the moisture performance of these packages using the assembly material set as listed in the below table.

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.

Qualification Information and Qualification Data:

Affected Packages: VFQFPN-16
Assembly Material: See Table below

Description	Existing	Add
Assembly Location	ASAC, China	UTL, Thailand
Assembly Materials	Die Attach: 2200	8200T
	Wire: Au wire	Au wire
	Mold Compound: G770C	G770HCD
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Sn/Pb (standard) and matte 100% Sn (RoHS)	Sn/Pb (standard) and matte 100% Sn (RoHS)



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A0812-02

Affected Packages: VFQFPN-28

Assembly Material: See Table below

Description	Existing	Add
Assembly Location	ASAC, China ; PT Unisem, Indonesia ; Carsem, Malaysia	UTL, Thailand
Assembly Materials	Die Attach: 2200/CRM1066C/QMI519	8600
	Wire: Au wire	Au wire
	Mold Compound: G770C/G770HC	G770HCD
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Sn/Pb (standard) and matte 100% Sn (RoHS)	Sn/Pb (standard) and matte 100% Sn (RoHS)

Test Vehicle: VFQFPN-56, 3 lots

Qualification Test Plan and Results:

Test Description	Test Method (Latest specs in effect)	Test Results (SS/Rej)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55°C to +125°C, 1000 cycles)	JESD22-A104	44/0	45/0	44/0
* Unbiased HAST (130°C, 85% RH, 96 hours)	JESD22-A118	45/0	45/0	45/0
* Auto Clave (121°C, 100% RH, 2 ATM, 96 hours)	JESD22-A102	45/0	45/0	45/0
Moisture Sensitivity Classification (L1/260°C)	J-STD-020	11/0	11/0	11/0

Note: * Test require moisture pre-conditioning sequence per JESD22-A113.



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN # : A0812-02

Affected Part Number

Part Number	Part Number	Part Number	Part Number
IDT5T929-10NLGI	IDT5T940-30NLI	IDT5V9885B-006NLI	IDT5V9885CNLI
IDT5T929-10NLGI8	IDT5T940-30NLI8	IDT5V9885B-006NLI8	IDT5V9885CNLI8
IDT5T929-10NLI	IDT5V2305NRGI	IDT5V9885B-007NLGI	IDT5V9885KNLGI
IDT5T929-10NLI8	IDT5V2305NRGI8	IDT5V9885B-007NLGI8	IDT5V9885KNLGI8
IDT5T929-30NLGI	IDT5V2305NRI	IDT5V9885B-012NLGI	IDT5V9885NLGI
IDT5T929-30NLGI8	IDT5V2305NRI8	IDT5V9885B-012NLGI8	IDT5V9885NLGI8
IDT5T929-30NLI	IDT5V9885-006NLGI	IDT5V9885B-016NLGI	IDT5V9885NLI
IDT5T929-30NLI8	IDT5V9885-006NLGI8	IDT5V9885B-016NLGI8	IDT5V9885NLI8
IDT5T9306NLGI	IDT5V9885-007NLGI	IDT5V9885B-016NLI	IDT5V9888-001NLGI
IDT5T9306NLGI8	IDT5V9885-007NLGI8	IDT5V9885B-016NLI8	IDT5V9888-001NLGI8
IDT5T9306NLI	IDT5V9885-007NLI	IDT5V9885B-020NLGI	IDT5V9888BNLGI
IDT5T9306NLI8	IDT5V9885-007NLI8	IDT5V9885B-020NLGI8	IDT5V9888BNLGI8
IDT5T93GL06NLGI	IDT5V9885A-006NLGI	IDT5V9885BNLGI	IDT5V9888CNLGI
IDT5T93GL06NLGI8	IDT5V9885A-006NLGI8	IDT5V9885BNLGI8	IDT5V9888CNLGI8
IDT5T93GL06NLI	IDT5V9885A-007NLGI	IDT5V9885C-012NLGI	IDT5V9888CNLI
IDT5T93GL06NLI8	IDT5V9885A-007NLGI8	IDT5V9885C-012NLGI8	IDT5V9888CNLI8
IDT5T940-10NLGI	IDT5V9885A-016NLGI	IDT5V9885C-018NLGI	IDT5V9888NLGI
IDT5T940-10NLGI8	IDT5V9885A-016NLGI8	IDT5V9885C-018NLGI8	IDT5V9888NLGI8
IDT5T940-10NLI	IDT5V9885ANLGI	IDT5V9885C-019NLGI	
IDT5T940-10NLI8	IDT5V9885ANLGI8	IDT5V9885C-019NLGI8	
IDT5T940-30NLGI	IDT5V9885B-006NLGI	IDT5V9885CNLGI	
IDT5T940-30NLGI8	IDT5V9885B-006NLGI8	IDT5V9885CNLGI8	