



Integrated Device Technology, Inc.  
2975 Stender Way, Santa Clara, CA - 95054

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>A-0406-07 REV.1</b> DATE: 10/22/2004 Product Affected: SSOP, TSSOP package families (see attachment for affected package types)  Date Effective: 8/3/2004	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark      Lot number will have the "A" prefix. <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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Contact: Geoffrey Cortes Title: Corporate QA / Reliability Manager Phone #: (408) 492- 8321 Fax #: (408) 727-2328 E-mail: <a href="mailto:Geoffrey.Cortes@idt.com">Geoffrey.Cortes@idt.com</a>	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Samples:            See attachment
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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><b>REV.1</b> - The purpose of this PCN is to revise the affected package types and products list. Package types PA48/56, PV48/56, PY14/16/24/28, PF48 and green products have been deleted from the affected package types and products list.          The PCN effective date will be the same as the original PCN.</p> <p>OSE - Taiwan is a qualified assembly facility for SSOP and TSSOP package families. This notification is to advise customers of additional package types (SSOP and TSSOP) manufacturing at OSE -Taiwan assembly location. Please see attachment for details.</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**  
 Please see attachment for reliability/qualification 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: _____	<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: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT - PCN #: A-0406-07 REV.1

**PCN Type:** Manufacturing Site  
**Data Sheet Change:** None  
**Detail of Change:** The purpose of this PCN is to revise the affected package types and products list. Package types PA48/56, PV48/56, PY14/16/24/28, PF48 and green products have been deleted from the affected package types and products list.  
 The PCN effective date will be the same as the original PCN.

OSE- Taiwan is a qualified assembly facility for SSOP and TSSOP package families. This notification is to advise customers of additional package types (SSOP and TSSOP) manufacturing at OSE Taiwan assembly location.

There are no datasheet or Moisture Sensitive Level (MSL) changes due to this assembly site change. Customers are not expected to be adversely impacted by this change.

Description	Manufacturing Site	
	Existing	Add
SSOP, TSSOP package families	Amkor Technology Philippines (ATP)	OSE-Taiwan

**The affected package types are as follow:**

Package Family	Package Type	Top Mark Designator
SSOP	PC28	Q
	PY20	PY
TSSOP	PF56	PF
	PG14	PG, PA
	PG16	PG, PA
	PG28	PG

**Samples are not built ahead of the change and are limited to selective devices. Please contact your local field sales representative for sample availability and additional information.**



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT - PCN #: A-0406-07 REV.1

**Qualification Plan #:** P97-10-03/P98-04-01

**Test Vehicle:** TSSOP (PA56)/SSOP (PC16)

**Qualification Test Plan and Results:**

Test Description	Test Method	Sample Size	Test Results TSSOP (PA56) (SS / # of Fails)	Test Results SSOP (PC16) (SS / # of Fails)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110-B	45/0	45/0	45/0
* Temperature Cycling (-65 °C to 150 °C, 500 cycle)	JESD22-A104-B	45/0	45/0	45/0
* Auto Clave (121 °C, 2 ATM, 168 Hrs)	JESD22-A102-C	45/0	45/0	45/0
Physical Dimensions	JESD22-B100-B	5/0	5/0	5/0
Internal Visual Inspection	MIL-STD-883, M2010	5/0	5/0	5/0
External Visual Inspection	JESD22-B101	25/0	25/0	25/0
Resistance to Solvents	MIL-STD-883, M2015	3/0	3/0	3/0
Bake & Ball Shear Test	JESD22-B116	5/0	5/0	5/0
Bond Pull Test	MIL-STD-883, M2011	5/0	5/0	5/0
X-ray Examination	MIL-STD-883, M2015	45/0	45/0	45/0
Moisture Sensitivity Classification (Performed on each package type)	J-STD-020B	2 lots	Pass	Pass

**Notes:** \* Test requires moisture pre-conditioning sequence per JESD22-A113C.  
a. There is no change in moisture sensitivity level.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT - PCN #: A-0406-07 REV.1 Product List

IDT2308-1HPG	IDT49FCT805BTPY	IDT74CBTLV3126PG	IDT74FCT521ATPY	IDT74LVC377APY
IDT2308-1HPGI	IDT49FCT805CTPY	IDT74CBTLV3244PY	IDT74FCT521CTPY	IDT74LVC541APY
IDT2308-2HPG	IDT49FCT805PY	IDT74CBTLV3245PY	IDT74FCT540ATPY	IDT74LVC573APY
IDT2308-2HPGI	IDT49FCT805PYI	IDT74CBTLV3251PG	IDT74FCT540CTPY	IDT74LVC574APY
IDT2308-5HPG	IDT49FCT806APY	IDT74CBTLV3253PG	IDT74FCT541ATPY	IDT74LVC74APG
IDT2308-5HPGI	IDT49FCT806BTPY	IDT74CBTLV3257PG	IDT74FCT541CTPY	IDT74LVCH16260APF
IDT2308A-1HPG	IDT49FCT806CTPY	IDT74CBTLVR16292PF	IDT74FCT573ATPY	IDT74LVCH162721APF
IDT2308A-1HPGI	IDT49FCT806PY	IDT74FCT162646ATPF	IDT74FCT573CTPY	IDT74LVCH162823APF
IDT2309-1HPG	IDT5993A-2Q	IDT74FCT162646CTPF	IDT74FCT574ATPY	IDT74LVCH16601APF
IDT2309-1HPGI	IDT5993A-5QI	IDT74FCT163501APF	IDT74FCT574CTPY	IDT74LVCH16646APF
IDT2309A-1HPG	IDT5993A-7QI	IDT74FCT163501CPF	IDT74FCT807BTPY	IDT74LVCH244APY
IDT2309A-1HPGI	IDT5T9050PGI	IDT74FCT20807PYI	IDT74FCT807BTPYI	IDT74LVCH245APY
IDT2309NZ-1HPG	IDT5T905PGI	IDT74FCT240ATPY	IDT74FCT807CTPY	IDTCSPT855PG
IDT2309NZ-1HPGI	IDT5V2305PGI	IDT74FCT240CTPY	IDT74FCT807CTPYI	IDTCSPT855PGI
IDT23S08-1HPG	IDT5V2528APGI	IDT74FCT244ATPY	IDT74FCT810BTPY	IDTCV112-1PG
IDT23S08-1HPGI	IDT5V2528PGI	IDT74FCT244CTPY	IDT74FCT810CTPY	IDTCV112-2PG
IDT23S08-5HPG	IDT5V926PGI	IDT74FCT245ATPY	IDT74LVC08APG	IDTCV112BPG
IDT23S08-5HPGI	IDT5V927PGI	IDT74FCT245CTPY	IDT74LVC112APG	IDTQS32390Q
IDT23S08E-1HPG	IDT5V993A-2Q	IDT74FCT273ATPY	IDT74LVC11APG	IDTQS3390Q
IDT23S08E-1HPGI	IDT5V993A-5QI	IDT74FCT273CTPY	IDT74LVC125APG	IDTQS3VH125PA
IDT23S08E-5HPG	IDT5V993A-7QI	IDT74FCT3244APY	IDT74LVC138APG	IDTQS3VH251PA
IDT23S08E-5HPGI	IDT74ALVC04PG	IDT74FCT3244PY	IDT74LVC157APG	IDTQS3VH253PA
IDT23S09-1HPG	IDT74ALVC08PG	IDT74FCT3245APY	IDT74LVC161APG	IDTQS3VH257PA
IDT23S09-1HPGI	IDT74ALVC162835PF	IDT74FCT3245PY	IDT74LVC163APG	IDTQS5917T-100TQ
IDT23S09E-1HPG	IDT74ALVC16835PF	IDT74FCT373ATPY	IDT74LVC16823APF	IDTQS5917T-132TQ
IDT23S09E-1HPGI	IDT74ALVC244PY	IDT74FCT373CTPY	IDT74LVC16952APF	IDTQS5917T-70TQ
IDT49FCT20805PYI	IDT74ALVCF162835APF	IDT74FCT374ATPY	IDT74LVC2244APY	IDTQS5LV919-100Q
IDT49FCT3805APY	IDT74ALVCH162268PF	IDT74FCT374CTPY	IDT74LVC2245APY	IDTQS5LV919-133Q
IDT49FCT3805APYI	IDT74ALVCH16270PF	IDT74FCT3807APY	IDT74LVC244APY	IDTQS5LV919-160Q
IDT49FCT3805DPYI	IDT74ALVCH16952PF	IDT74FCT3807APYI	IDT74LVC245APY	IDTQS5LV919-55Q
IDT49FCT3805EPYI	IDT74CBTLV16211PF	IDT74FCT3807DPYI	IDT74LVC257APG	IDTQS5LV919-70Q
IDT49FCT3805PY	IDT74CBTLV16212PF	IDT74FCT3807EPYI	IDT74LVC273APY	
IDT49FCT3805PYI	IDT74CBTLV16214PF	IDT74FCT3807PY	IDT74LVC32APG	
IDT49FCT805APY	IDT74CBTLV16292PF	IDT74FCT3807PYI	IDT74LVC373APY	
IDT49FCT805APYI	IDT74CBTLV3125PG	IDT74FCT3811PYI	IDT74LVC374APY	

Note: T & R (shipping method) "8" is added to the part number and for industrial grade, letter "I" is added to the part number.