



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: A-0405-06 Product Affected: PV (SSOP) packages (see attachment for affected part #s) Date Effective: 8/24/2004	DATE: 5/25/2004	MEANS OF DISTINGUISHING CHANGED DEVICES: <input type="checkbox"/> Product Mark <input checked="" type="checkbox"/> Back Mark Lot number will have the "P" 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: Geoffrey.Cortes@idt.com	Attachment:: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: See attachment
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DESCRIPTION AND PURPOSE OF CHANGE:

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site To qualify an alternate assembly facility, Amkor Technology Philippines (ATP), for PV (SSOP) packages. ATP is a qualified assembly facility for plastic packages.
- Data Sheet
- Other

RELIABILITY/QUALIFICATION SUMMARY:
 Please see attachment for 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: _____ Name/Date: _____ Title: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i> E-Mail Address: _____ Phone# /Fax# : _____
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CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:
 RECD. BY: _____ DATE: _____



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ATTACHMENT - PCN #: A-0405-06

PCN Type: Manufacturing Site

Data Sheet Change: None

Detail of Change: To qualify an alternate assembly facility, Amkor Technology Philippines (ATP), for PV (SSOP) packages.

ATP is a qualified assembly facility for plastic packages.

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

Description	Manufacturing Site	
	Existing	Add
PV (SSOP) packages	Amkor Technology Korea (ATK)	Amkor Technology Philippines (ATP)

Please see attachment for affected part #s (Appendix - 1).

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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Qualification Plan #: P03-09-01

Test Vehicle: IDT82V3011PV

Qualification Test Plan and Results:

Test Description	Test Method	Test Results IDT82V3011PV (SS / # of Fails)
* High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hrs)	JESD22-A110-B	45/0
* Temperature Cycling (-65 °C to 150 °C, 500 cycle)	JESD22-A104-B	45/0
* Auto Clave (121 °C, 2 ATM, 168 Hrs)	JESD22-A102-C	45/0
High Temp Bake (1000 Hrs @ 150 °C)	JESD22-A103-B	77/0
Physical Dimensions	JESD22-B100-B	5/0
Internal Visual Inspection	MIL-STD-883, M 2010	5/0
External Visual Inspection	JESD22-B101	25/0
Lead Integrity Test	JESD22-B105C	3/0
Resistance to Solvents	MIL-STD-883, M 2015	3/0
Adhesion of Lead Finish	MIL-STD-883, M 2025	3/0
Bake & Ball Shear Test	JESD22-B116	5/0
Solderability Test	JESD22-B102-C J-STD-002	5/0
Bond Pull Test	MIL-STD-883, M 2011	5/0
X-ray Examination	MIL-STD-883, M 2015	45/0
Moisture Sensitivity Classification (Performed on each package type)	J-STD-020B	90/0

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



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Appendix - 1

IDT72V8980PV	IDT74FCT162344ETPV	IDT74FCT162H501ATPV	IDT74FCT16823ATPV	IDT74LVCH16652APV
IDT72V8985PV	IDT74FCT162373ATPV	IDT74FCT162H501CTPV	IDT74FCT16823CTPV	IDT74LVCH16827APV
IDT74ALVC162244PV	IDT74FCT162373CTPV	IDT74FCT162H952ATPV	IDT74FCT16823ETPV	IDT74LVCHR162245APV
IDT74ALVC162245PV	IDT74FCT162373ETPV	IDT74FCT162H952CTPV	IDT74FCT16827ATPV	IDT74LVCHR16501APV
IDT74ALVC16244APV	IDT74FCT162374ATPV	IDT74FCT162H952ETPV	IDT74FCT16827CTPV	IDT74LVCR162245APV
IDT74ALVC16245PV	IDT74FCT162374CTPV	IDT74FCT163244APV	IDT74FCT16841ATPV	IDT82V3001APV
IDT74ALVC162836PV	IDT74FCT162374ETPV	IDT74FCT163244CPV	IDT74FCT16841CTPV	IDT82V3002APV
IDT74ALVC164245PV	IDT74FCT16240ATPV	IDT74FCT163245APV	IDT74FCT16952ATPV	IDT82V3010PV
IDT74ALVCH162244PV	IDT74FCT16240CTPV	IDT74FCT163245CPV	IDT74FCT16952CTPV	IDT82V3011PV
IDT74ALVCH162245PV	IDT74FCT16240ETPV	IDT74FCT163344APV	IDT74FCT16952ETPV	IDT82V3012PV
IDT74ALVCH162373PV	IDT74FCT16244ATPV	IDT74FCT163344CPV	IDT74FST163209PV	IDT82V3155PV
IDT74ALVCH162374PV	IDT74FCT16244CTPV	IDT74FCT163373APV	IDT74FST163212PV	IDTCT118APV
IDT74ALVCH16244PV	IDT74FCT16245ATPV	IDT74FCT163373CPV	IDT74FST163214PV	IDTCT601PV
IDT74ALVCH16245PV	IDT74FCT16245CTPV	IDT74FCT163374APV	IDT74FST163232PV	IDTCV105EPV
IDT74ALVCH16260PV	IDT74FCT16245ETPV	IDT74FCT163374CPV	IDT74FST163233PV	IDTCV107EPV
IDT74ALVCH16270PV	IDT74FCT162500ATPV	IDT74FCT163501APV	IDT74FST163244PV	IDTCV109EPV
IDT74ALVCH16276PV	IDT74FCT162500CTPV	IDT74FCT163501CPV	IDT74FST163245PV	IDTCV110JPV
IDT74ALVCH16373PV	IDT74FCT162501ATPV	IDT74FCT163543APV	IDT74FST32XL384PV	IDTCV110KPV
IDT74ALVCH16374PV	IDT74FCT162501CTPV	IDT74FCT163543CPV	IDT74GTLP16612PV	IDTCV110LPV
IDT74ALVCH16501PV	IDT74FCT162511ATPV	IDT74FCT163646APV	IDT74LVC162244APV	IDTCV115-1PV
IDT74ALVCH16601PV	IDT74FCT162511CTPV	IDT74FCT163646CPV	IDT74LVC162245APV	IDTCV115-2PV
IDT74ALVCH16646PV	IDT74FCT162543ATPV	IDT74FCT16373ATPV	IDT74LVC162374APV	IDTCV115-3PV
IDT74ALVCH16721PV	IDT74FCT162543CTPV	IDT74FCT16373CTPV	IDT74LVC16244APV	IDTCV115-4PV
IDT74ALVCH16903PV	IDT74FCT16260ATPV	IDT74FCT16374ATPV	IDT74LVC16245APV	IDTCV115CPV
IDT74ALVCH16952PV	IDT74FCT16260CTPV	IDT74FCT16374CTPV	IDT74LVC16344APV	IDTCV116-1PV
IDT74ALVCHR162245PV	IDT74FCT16260ETPV	IDT74FCT16374ETPV	IDT74LVC16373APV	IDTCV116PV
IDT74ALVCHR162269APV	IDT74FCT162646ATPV	IDT74FCT163827APV	IDT74LVC16374APV	IDTCV117PV
IDT74CBTLV16210PV	IDT74FCT162646CTPV	IDT74FCT163827CPV	IDT74LVC16501APV	IDTCV119EPV
IDT74CBTLV16211PV	IDT74FCT162652ATPV	IDT74FCT163952APV	IDT74LVC16601APV	IDTCV122BPV
IDT74CBTLV16212PV	IDT74FCT162652CTPV	IDT74FCT163952CPV	IDT74LVC16646APV	IDTCV123PV
IDT74CBTLV16214PV	IDT74FCT162701ATPV	IDT74FCT164245TPV	IDT74LVC16823APV	IDTCV129PV
IDT74CBTLV16245PV	IDT74FCT162701TPV	IDT74FCT16500ATPV	IDT74LVC16827APV	IDTCV132PV
IDT74CBTLV16292PV	IDT74FCT162823ATPV	IDT74FCT16500CTPV	IDT74LVC16952APV	IDTQS316211PV
IDT74CBTLV16800PV	IDT74FCT162823CTPV	IDT74FCT16501ATPV	IDT74LVCH162244APV	IDTQS316212PV
IDT74CBTLVR16292PV	IDT74FCT162827ATPV	IDT74FCT16501CTPV	IDT74LVCH162245APV	IDTQS316233PV
IDT74FCT162240ATPV	IDT74FCT162827CTPV	IDT74FCT16543ATPV	IDT74LVCH162373APV	IDTQS316245PV
IDT74FCT162240CTPV	IDT74FCT162841ATPV	IDT74FCT16543CTPV	IDT74LVCH162374APV	IDTQS3VH16210PV
IDT74FCT162244ATPV	IDT74FCT162841CTPV	IDT74FCT16543ETPV	IDT74LVCH16244APV	IDTQS3VH16211PV
IDT74FCT162244CTPV	IDT74FCT162952ATPV	IDT74FCT166244ATPV	IDT74LVCH16245APV	IDTQS3VH16212PV
IDT74FCT162244ETPV	IDT74FCT162952CTPV	IDT74FCT166244CTPV	IDT74LVCH16260APV	IDTQS3VH16233PV
IDT74FCT162245ATPV	IDT74FCT162952ETPV	IDT74FCT166245ATPV	IDT74LVCH16276APV	IDTQS3VH16244PV
IDT74FCT162245CTPV	IDT74FCT162H244ATPV	IDT74FCT166245TPV	IDT74LVCH16373APV	IDTQS3VH16245PV
IDT74FCT162260ATPV	IDT74FCT162H244CTPV	IDT74FCT16646ATPV	IDT74LVCH16374APV	IDTQS3VH16800PV
IDT74FCT162260CTPV	IDT74FCT162H245ATPV	IDT74FCT16646CTPV	IDT74LVCH16501APV	IDTQS3VH16861PV
IDT74FCT162260ETPV	IDT74FCT162H245CTPV	IDT74FCT16646ETPV	IDT74LVCH16543APV	IDTQS3VH16862PV
IDT74FCT162344ATPV	IDT74FCT162H272ATPV	IDT74FCT16652ATPV	IDT74LVCH16601APV	
IDT74FCT162344CTPV	IDT74FCT162H272CTPV	IDT74FCT16652CTPV	IDT74LVCH16646APV	

Note: For T & R (shipping method) "8" is added to the part number.