



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **L0203-10**      DATE: April 15, 2002  
 Product Affected: Please see attachment for the product list  
 Date Effective: July 15, 2002

**MEANS OF DISTINGUISHING CHANGED DEVICES:**

- Product Mark
- Back Mark
- Date Code      See attached list for New Steppings
- Other

Contact: Bimla Paul  
 Title: Quality Assurance Manager  
 Phone #: (408)-654-6419  
 Fax #: (408)-492-8362  
 E-mail: bimla.paul@idt.com

Attachment:  Yes       No

Samples: Available upon request.

**DESCRIPTION AND PURPOSE OF CHANGE:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> Die Technology</li> <li><input type="checkbox"/> Wafer Fabrication Process</li> <li><input type="checkbox"/> Assembly Process</li> <li><input type="checkbox"/> Equipment</li> <li><input type="checkbox"/> Material</li> <li><input type="checkbox"/> Testing</li> <li><input checked="" type="checkbox"/> Manufacturing Site</li> <li><input type="checkbox"/> Data Sheet</li> <li><input type="checkbox"/> Other</li> </ul> | <p>To consolidate wafer fab production from Salinas, California (Fab 2) to Hillsboro, Oregon (Fab 4), these qualified Logic products will be transferred to IDT's wafer fab facility in Hillsboro, Oregon. There is no change in die technology.</p> |
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**RELIABILITY/QUALIFICATION SUMMARY:**

Qualification testing will verify that there is no change to the product reliability. Qualification data is available upon request.

**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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**PCN Type:** Fab Site Change

**Data Sheet Change:** None

**Detail of Change:** Transfer existing qualified products from Salinas, California Wafer Fab Facility (Fab 2) to Hillsboro, Oregon Wafer Fab Facility (Fab 4).  
**The Following devices are affected by this change. All packages and speed grades are affected except as noted.**

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT2305	CD	CD4
IDT2308	CD	CD4
IDT2309	CD	CD4
IDT49FCT3805D/E <i>(Note 1)</i>	<b>Z</b>	<b>Z4</b>
IDT5T9950A	CG	Z
IDT5T995A	CG	Z
IDT5V926	Z	Z4
IDT5V927	Z	Z4
IDT5V928	Z	Z4
IDT5V994	Z	Z4
IDT5V995	CG	Z
IDT5V9950	CG	Z
IDT74ALVC162244	A	A4
IDT74ALVC162245	A	A4
IDT74ALVC162268	A	A4

**NOTE 1: ONLY "D" AND "E" SPEEDS ARE AFFECTED BY THIS CHANGE.**



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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74ALVC162334	A	A4
IDT74ALVC162344	A	A4
IDT74ALVC16244	A	A4
IDT74ALVC16245	A	A4
IDT74ALVC16260	A	A4
IDT74ALVC162830	AB	AB4
IDT74ALVC162831	AB	AB4
IDT74ALVC162834	A	A4
IDT74ALVC162835	A	A4
IDT74ALVC162836	A	A4
IDT74ALVC16334	A	A4
IDT74ALVC16344	A	A4
IDT74ALVC16646	A	A4
IDT74ALVC16820	A	A4
IDT74ALVC16830	AB	AB4
IDT74ALVC16831	AB	AB4
IDT74ALVC16834	A	A4
IDT74ALVC16835	A	A4
IDT74ALVC16836	A	A4
IDT74ALVC16841	A	A4
IDT74ALVC1G00	AG	AG4
IDT74ALVC1G02	AG	AG4
IDT74ALVC1G04	AG	AG4
IDT74ALVC1G06	AG	AG4
IDT74ALVC1G07	AG	AG4
IDT74ALVC1G08	AG	AG4

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74ALVC1G125	AG	AG4
IDT74ALVC1G126	AG	AG4
IDT74ALVC1G32	AG	AG4
IDT74ALVC1G79	AG	AG4
IDT74ALVC1G86	AG	AG4
IDT74ALVC1GU04	AG	AG4
IDT74ALVCH162244	A	A4
IDT74ALVCH162245	A	A4
IDT74ALVCH162260	A	A4
IDT74ALVCH162268	A	A4
IDT74ALVCH162334	A	A4
IDT74ALVCH162344	A	A4
IDT74ALVCH162373	A	A4
IDT74ALVCH162374	A	A4
IDT74ALVCH16240	A	A4
IDT74ALVCH16244	A	A4
IDT74ALVCH16245	A	A4
IDT74ALVCH162525	A	A4
IDT74ALVCH16260	A	A4
IDT74ALVCH162601	A	A4
IDT74ALVCH16269	A	A4
IDT74ALVCH16270	A	A4
IDT74ALVCH16271	A	A4
IDT74ALVCH162721	A	A4
IDT74ALVCH16276	A	A4



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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74ALVCH162820	A	A4
IDT74ALVCH162821	A	A4
IDT74ALVCH162825	A	A4
IDT74ALVCH162827	A	A4
IDT74ALVCH162830	AB	AB4
IDT74ALVCH162831	AB	AB4
IDT74ALVCH162832	AB	AB4
IDT74ALVCH162835	A	A4
IDT74ALVCH162836	A	A4
IDT74ALVCH162841	A	A4
IDT74ALVCH16334	A	A4
IDT74ALVCH16344	A	A4
IDT74ALVCH16345	A	A4
IDT74ALVCH16373	A	A4
IDT74ALVCH16374	A	A4
IDT74ALVCH16409	A	A4
IDT74ALVCH16500	A	A4
IDT74ALVCH16501	A	A4
IDT74ALVCH16524	A	A4
IDT74ALVCH16525	A	A4
IDT74ALVCH16540	A	A4
IDT74ALVCH16543	A	A4
IDT74ALVCH16600	A	A4
IDT74ALVCH16601	A	A4
IDT74ALVCH16646	A	A4

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74ALVCH16652	A	A4
IDT74ALVCH16701	A	A4
IDT74ALVCH16721	A	A4
IDT74ALVCH16820	A	A4
IDT74ALVCH16821	A	A4
IDT74ALVCH16823	A	A4
IDT74ALVCH16825	A	A4
IDT74ALVCH16827	A	A4
IDT74ALVCH16830	AB	AB4
IDT74ALVCH16831	AB	AB4
IDT74ALVCH16832	AB	AB4
IDT74ALVCH16835	A	A4
IDT74ALVCH16836	A	A4
IDT74ALVCH16841	A	A4
IDT74ALVCH16843	A	A4
IDT74ALVCH16863	A	A4
IDT74ALVCH16901	AB	AB4
IDT74ALVCH16903	A	A4
IDT74ALVCH16952	A	A4
IDT74ALVCH32244	A	A4
IDT74ALVCH32245	A	A4
IDT74ALVCH32373	A	A4
IDT74ALVCH32374	A	A4
IDT74ALVCH32501	A	A4
IDT74ALVCHR162245	A	A4



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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74ALVCHR162269	A	A4
IDT74ALVCHR16260	A	A4
IDT74ALVCHR16270	A	A4
IDT74ALVCHR16409	A	A4
IDT74ALVCHR16500	A	A4
IDT74ALVCHR16501	A	A4
IDT74ALVCHR16543	A	A4
IDT74ALVCHR16601	A	A4
IDT74CBTLV3125	SA	SA4
IDT74CBTLV3126	SA	SA4
IDT74CBTLV3244	SA	SA4
IDT74CBTLV3245	SA	SA4
IDT74CBTLV3251	SA	SA4
IDT74CBTLV3253	SA	SA4
IDT74CBTLV3257	SA	SA4
IDT74CBTLV3384	SA	SA4
IDT74CBTLV3861	SA	SA4
IDT74CBTLV3862	SA	SA4
IDT74CBTLV6800	SA	SA4
IDT74FCT163244	X	X4
IDT74FCT163245	X	X4
IDT74FCT163344	X	X4

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74FCT163373	X	X4
IDT74FCT163374	X	X4
IDT74FCT163501	X	X4
IDT74FCT163543	X	X4
IDT74FCT163601	X	X4
IDT74FCT163646	X	X4
IDT74FCT163827	X	X4
IDT74FCT163952	X	X4
<b>IDT74FCT3807D/E</b> <b>(Note 1)</b>	<b>Z</b>	<b>Z4</b>
IDT74GTLP16612	TA	TA4
IDT74LVC07	XT	XT4
IDT74LVC08	XT	XT4
IDT74LVC109	XT	XT4
IDT74LVC11	XT	XT4
IDT74LVC112	XT	XT4
IDT74LVC125	XT	XT4
IDT74LVC126	XT	XT4
IDT74LVC137	XT	XT4
IDT74LVC138	XT	XT4
IDT74LVC139	XT	XT4
IDT74LVC14	XT	XT4
IDT74LVC157	XT	XT4
IDT74LVC161	XT	XT4

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	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74LVC162244	X	X4
IDT74LVC162245	X	X4
IDT74LVC162374	X	X4
IDT74LVC16240	X	X4
IDT74LVC16241	X	X4
IDT74LVC16244	X	X4
IDT74LVC16245	X	X4
IDT74LVC162827	X	X4
IDT74LVC163	XT	XT4
IDT74LVC16344	X	X4
IDT74LVC16373	X	X4
IDT74LVC16374	X	X4
IDT74LVC16500	X	X4
IDT74LVC16501	X	X4
IDT74LVC16540	X	X4
IDT74LVC16541	X	X4
IDT74LVC16543	X	X4
IDT74LVC16601	X	X4
IDT74LVC16646	X	X4
IDT74LVC16652	X	X4
IDT74LVC16821	X	X4
IDT74LVC16823	X	X4
IDT74LVC16827	X	X4
IDT74LVC16841	X	X4
IDT74LVC169	XT	XT4

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74LVC16952	X	X4
IDT74LVC16Z646	X	X4
IDT74LVC1G00A	XY	XY4
IDT74LVC1G02A	XY	XY4
IDT74LVC1G04A	XY	XY4
IDT74LVC1G06A	XY	XY4
IDT74LVC1G07A	XY	XY4
IDT74LVC1G08A	XY	XY4
IDT74LVC1G125A	XY	XY4
IDT74LVC1G126A	XY	XY4
IDT74LVC1G32A	XY	XY4
IDT74LVC1G79A	XY	XY4
IDT74LVC1G86A	XY	XY4
IDT74LVC1GU04A	XY	XY4
IDT74LVC2244	E	E4
IDT74LVC2245	E	E4
IDT74LVC241	E	E4
IDT74LVC244	E	E4
IDT74LVC245	E	E4
IDT74LVC257	XT	XT4
IDT74LVC273	E	E4
IDT74LVC2952	E	E4
IDT74LVC32	XT	XT4
IDT74LVC373	E	E4
IDT74LVC374	E	E4



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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74LVC377	E	E4
IDT74LVC541	E	E4
IDT74LVC543	E	E4
IDT74LVC573	E	E4
IDT74LVC574	E	E4
IDT74LVC623	E	E4
IDT74LVC646	E	E4
IDT74LVC652	E	E4
IDT74LVC74	XT	XT4
IDT74LVC821	E	E4
IDT74LVC823	E	E4
IDT74LVC827	E	E4
IDT74LVC841	E	E4
IDT74LVC86	XT	XT4
IDT74LVC861	E	E4
IDT74LVC863	E	E4
IDT74LVCH162244	X	X4
IDT74LVCH162245	X	X4
IDT74LVCH162373	X	X4
IDT74LVCH162374	X	X4
IDT74LVCH16240	X	X4
IDT74LVCH16241	X	X4
IDT74LVCH16244	X	X4
IDT74LVCH16245	X	X4
IDT74LVCH16260	X	X4

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74LVCH162721	X	X4
IDT74LVCH16276	X	X4
IDT74LVCH162823	X	X4
IDT74LVCH16344	X	X4
IDT74LVCH16373	X	X4
IDT74LVCH16374	X	X4
IDT74LVCH16501	X	X4
IDT74LVCH16540	X	X4
IDT74LVCH16541	X	X4
IDT74LVCH16543	X	X4
IDT74LVCH16601	X	X4
IDT74LVCH16646	X	X4
IDT74LVCH16652	X	X4
IDT74LVCH16701	X	X4
IDT74LVCH16702	X	X4
IDT74LVCH16721	X	X4
IDT74LVCH16827	X	X4
IDT74LVCH16952	X	X4
IDT74LVCH2244	E	E4
IDT74LVCH2245	E	E4
IDT74LVCH244	E	E4
IDT74LVCH245	E	E4
IDT74LVCH2541	E	E4
IDT74LVCH2573	E	E4
IDT74LVCH2574	E	E4



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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDT74LVCH32244	X	X4
IDT74LVCH32245	X	X4
IDT74LVCH32373	X	X4
IDT74LVCH32374	X	X4
IDT74LVCH32501	X	X4
IDT74LVCH373	E	E4
IDT74LVCH374	E	E4
IDT74LVCH573	E	E4
IDT74LVCH574	E	E4
IDT74LVCH646	E	E4
IDT74LVCHR162245	X	X4
IDT74LVCHR16501	X	X4
IDT74LVCHR16543	X	X4
IDT74LVCHR16646	X	X4
IDT74LVCHR16952	X	X4
IDT74LVCR162245	X	X4
IDT74LVCR16501	X	X4
IDT74LVCR16952	X	X4
IDT74LVCR2245	E	E4
IDT74LVCU04	XT	XT4
IDTCSPF2510C	PA	PA4
IDTQS3125	Y, QA	X
IDTQS32384	Z	Y
IDTQS3245	Z, QE	Y

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDTQS3253	Y, QA	X
IDTQS3257	Y, QA	X
IDTQS32X2384	Z, QE	Y
IDTQS32X245	Z, QE	Y
IDTQS3384	Z	Y
IDTQS33X253	Y, QA	X
IDTQS33X257	Y, QA	X
IDTQS34X245	Z, QE	Y
IDTQS3800	Z, QG	Y
IDTQS3861	Z, QG	Y
IDTQS3L384	Z, QG	Y
IDTQS3R800	Z, QG	Y
IDTQS3VH125	Z	Z4
IDTQS3VH126	Z	Z4
IDTQS3VH16210	Y	Y4
IDTQS3VH16211	Y	Y4
IDTQS3VH16212	Y	Y4
IDTQS3VH16233	Y	Y4
IDTQS3VH16244	Y	Y4
IDTQS3VH16245	Y	Y4
IDTQS3VH383	Y	Y4
IDTQS3VH16800	Y	Y4
IDTQS3VH16861	Y	Y4
IDTQS3VH16862	Y	Y4
IDTQS3VH2245	Z	Z4





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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDTQS3VH244	Z	Z4
IDTQS3VH245	Z	Z4
IDTQS3VH251	Z	Z4
IDTQS3VH253	Z	Z4
IDTQS3VH257	Z	Z4
IDTQS3VH2861	Z	Z4
IDTQS3VH2862	Z	Z4
IDTQS3VH384	Z	Z4

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)
IDTQS3VH800	Z	Z4
IDTQS3VH861	Z	Z4
IDTQS3VH862	Z	Z4
IDTQS4A101	Y, QA	X
IDTQS4A110	Z	Y
IDTQS4A205	Y, QA	X
IDTQS4A210	Y, QA	X
IDTQS4A215	Y, QA	X

**Qualification Plans:** Following reliability tests will be performed per Product Family and the expected completion date is June 30, 2002.

	Required Sample/ # Fails
Operating Life Test: Dynamic 1000 hrs @ 125°C or equivalent	116/0
Bake & Ballshear Test @ 200°C / 4 ball bonds per device	5/0
Temperature Cycling: (-65°C to +150°C, 500 cycles)	45/0
HAST: (Biased, 100 Hrs. @ +130°C, +85%RH)	45/0
ESD Human Body Model	3/0
ESD Charged Device Model	3/0
ESD Machine Model	3/0
Latch up: (Tested to 1.5X Vcc)	10/0

Qualification Data is available upon request.

**Characterization Data:**

Characterization data is available upon request.