



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **L0203-09R1**      DATE: May 29, 2003  
Product Affected: Please see attachment for the product list

**MEANS OF DISTINGUISHING CHANGED DEVICES:**

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

Date Effective: August 28, 2002

Contact: Bimla Paul  
Title: Quality Assurance Manager  
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Attachment:       Yes       No

Samples: Available upon request.

**DESCRIPTION AND PURPOSE OF CHANGE:**

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site
- Data Sheet
- Other

To upgrade the Fabrication Process Technologies on selected Logic products, and transfer wafer fab production from Salinas, California (Fab 2) to Hillsboro, Oregon (Fab 4). There is no change in data sheet specifications.

PCN Addendum:

Due to declined market and process evolution, status of selected devices has been revised. Please refer to the column "Revised Status" in the attachment for details. PCN effective date is same as the original PCN.

**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: \_\_\_\_\_

*Approval for shipments prior to effective date.*

Name/Date: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_

Phone# /Fax# : \_\_\_\_\_

**CUSTOMER COMMENTS:** \_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_



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### ATTACHMENT - PCN #: L0203-09R1

**PCN Type:** Process Technology Change & Fab Site Change

**Data Sheet Change:** None

**Detail of Change:** PCN # L0203-09 was previously issued on 4/15/02 to notify customers about upgrading the Fabrication Process Technologies on selected Logic products, and transfer wafer fab production from Salinas, California (Fab 2) to Hillsboro, Oregon (Fab 4). There is no change in data sheet specifications.

The products highlighted in the column labeled "Revised Status" are affected by the PCN as follow:

- i. Three devices will be discontinued in October 2003 per PDN # L-02-04 due to declined market.
- ii. Selected products that were previously specified as KB will be transferred to PB stepping.
- iii. Selected products that were previously specified as KB will be transferred to Z stepping.
- iv. Selected products that are on hold due to existing inventory, please refer to note 1.

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)	Revised Status
IDT74FCT138T	K	KB	Note 1
IDT74FCT139T	K	KB	Z
IDT74FCT151T	K	KB	Note 1
IDT74FCT2240T	K	KB	Note 1
IDT74FCT2244T	K	KB	Z
IDT74FCT2245T	K	KB	Z
IDT74FCT2257T	K	KB	Note 1
IDT74FCT2373T	K	KB	Note 1
IDT74FCT2374T	K	KB	Z
IDT74FCT240	K	KB	Note 1
IDT74FCT240T	K, P	PB	PB
IDT74FCT244T	K, P	PB	PB
IDT74FCT245	K	KB	Note 1
IDT74FCT245T	K, P	PB	PB
IDT74FCT2541T	K	KB	Note 1
IDT74FCT2573T	K	KB	Note 1
IDT74FCT2574T	K	KB	Note 1
IDT74FCT3244	K	KB	PB
IDT74FCT3245	K	KB	PB
IDT74FCT3573	K	KB	Z

**Note 1: Transfer of these products is on hold due to existing inventory.**



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### ATTACHMENT - PCN #: L0203-09R1

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)	Revised Status
IDT74FCT3574	K	KB	Note 1
IDT74FCT373	K	KB	Note 1
IDT74FCT373T	K, P	PB	PB
IDT74FCT374	K	KB	Note 1
IDT74FCT374T	K, P	PB	PB
IDT74FCT377T	K, P	PB	PB
IDT74FCT521	K	KB	Z
IDT74FCT521T	K	KB	PB
IDT74FCT534T	K	KB	Note 1
IDT74FCT540T	K, P	PB	PB
IDT74FCT541	K	KB	Note 1
IDT74FCT541T	K	KB	Note 1
IDT74FCT573	K	KB	Note 1
IDT74FCT573T	K, P	PB	PB
IDT74FCT574	K	KB	Note 1
IDT74FCT574T	K, P	PB	PB
IDT74FCT621T	K	KB	Note 1
IDT74FCT652T	H, P	PB	PB
IDT74FCT823T	H, P	PB	PB
IDT74FCT543T	H, P	PB	PB
IDT49FCT805	K	KB	Z
IDT74FCT157T	P	PB	PB
IDT74FCT257T	P	PB	PB
IDT49FCT3805	P	PB	PB
IDT49FCT805T	P	PB	Z
IDT74FCT3807	P	PB	PB
IDT74FCT807T	P	PB	PB
IDT74FCT162240T	L, LZ	LB	LB
IDT74FCT162244T	Z, L, LZ, LZE	LB	LB
IDT74FCT162245T	L	LB	LB

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)	Revised Status
IDT74FCT162373T	L, LZE	LB	LB
IDT74FCT162374T	L, LZE, Z	LB	LB
IDT74FCT16240T	L	LB	LB
IDT74FCT16244T	L	LB	LB
IDT74FCT16245T	L	LB	LB
IDT74FCT162H244T	L	LB	LB
IDT74FCT162H245T	L, LZ	LB	LB
IDT74FCT16373T	L, LZ	LB	LB
IDT74FCT16374T	L, LZ, Z	LB	LB
IDT74FCT166244T	L	LB	LB
IDT74FCT166245T	L	LB	LB
IDT74FST163209	D	DB	DB
IDT74FST163210	D	DB	L-02-04
IDT74FST163211	D	DB	DB
IDT74FST163212	D	DB	DB
IDT74FST163214	D	DB	DB
IDT74FST163232	D	DB	DB
IDT74FST163233	D	DB	DB
IDT74FST1632383	D	DB	DB
IDT74FST163244	D	DB	DB
IDT74FST163245	D	DB	DB
IDT74FST1632861	D	DB	DB
IDT74FST163292	D	DB	L-02-04
IDT74FST163383	D	DB	L-02-04
IDT74FST1632861	D	DB	DB
IDT74FST163P245	D	DB	DB
IDT74FST32XL2384	D	DB	DB
IDT74FST32XL384	D	DB	DB
IDT 74FST6800	F	FB	FB
IDT74FCT162260T	N	NB	NB

Note 1: Transfer of these products is on hold due to existing inventory.



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Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)	Revised Status
IDT74FCT162344T	N	NB	NB
IDT74FCT162500T	N	NB	NB
IDT74FCT162501T	N	NB	NB
IDT74FCT162511T	N	NB	NB
IDT74FCT162543T	N	NB	NB
IDT74FCT162601T	N	NB	NB
IDT74FCT16260T	N, NE	NB	NB
IDT74FCT162646T	N	NB	NB
IDT74FCT162652T	N	NB	NB
IDT74FCT162701T	N	NB	NB
IDT74FCT162823T	N	NB	NB
IDT74FCT162827T	N	NB	NB
IDT74FCT162841T	N	NB	NB
IDT74FCT162952T	N	NB	NB
IDT74FCT162H272T	N	NB	NB

Part Number	Old Stepping (Fab 2)	New Stepping (Fab 4)	Revised Status
IDT74FCT162H501T	N	NB	NB
IDT74FCT162H952T	N	NB	NB
IDT74FCT164245T	N	NB	NB
IDT74FCT16500T	N	NB	NB
IDT74FCT16501T	N	NB	NB
IDT74FCT16543T	N, NE	NB	NB
IDT74FCT16601T	N	NB	NB
IDT74FCT16646T	N	NB	NB
IDT74FCT16652T	N	NB	NB
IDT74FCT16823T	N	NB	NB
IDT74FCT16827T	N	NB	NB
IDT74FCT16841T	N	NB	NB
IDT74FCT16952T	N	NB	NB
IDT74FCT388915T	N	NB	NB
IDT74FCT88915TT	N	NB	NB

**Qualification Plans:** Following reliability tests were performed per product family and the qualification test results are as follows:

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

**Characterization Data:**  
Characterization data is available upon request.