IDT

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

PRODUCT/PROCESS CHANGE NOTICE (PCN) ADDENDUM

PCN #: L9910-03R1 DATE: May 22, 2000	**MEANS OF DISTINGUISHING CHANGED DEVICES:**
Product Affected: Selected 3.3V Double Density Logic FCT Devices (See Below For Detail Part Nos.)	☐ Product Mark ☐ Back Mark
Manufacturing Location Affected: N/A	■ Date Code Prefix from "N" or "L" to "X"
Date Effective: June 22, 2000	☐ Other

Contact: Bimla Paul		
Title: Product Assurance Manager	Attachment::	■ Yes ☐ No
Phone #: 408-654-6419		
Fax #: 408-492-8362	Samples:	Available upon request
E-mail: bimla.paul@idt.com		

DESCRIPTION AND PURPOSE OF CHANGE:

■ Die Technology
■ Wafer Fabrication Process   For selected 3.3V Double Density Logic FCT products, IDT will be migrating to a new
☐ Assembly Process   die revision for process consolidation. There is no data sheet specifications or package
☐ Equipment   change. This PCN Addendum replaces PCN # L9910-03.
☐ Material
☐ Testing   Additional affected part numbers are: 74FCT163373, 163374, 163543, 163601 & 163952
☐ Manufacturing Site   Please see attachment for the complete affected part numbers.
☐ Data Sheet
☐ Other

RELIABILITY/QUALIFICATION SUMMARY:

Qualification and reliability data will be 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: _____   ☐ *Approval for shipments prior to effective date.*

Name/Date: _____   E-Mail Address: _____

Title: _____   Phone# /Fax# : _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____   DATE: _____

ATTACHMENT

PCN # L9910-03R1

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PCN Summary
PCN Type:

Design Change
Change to Fab Process

Commodity   Logic

Forecast or Execute   Execute

Planned or Unplanned   Unplanned

Data Sheet Change   No Change

Detail of Change

For selected 3.3V Double Density Logic FCT products, IDT will be migrating to a new die revision for process consolidation. There is no data sheet specification or package change.

The affected part numbers are: 54/74FCT163344, 163501, 163827, 163646, 163244, 163245,
74FCT163373, 163374, 163543, 163601 and 163952

Process / Design Changes

	Current Die		Replacment Die
	54/74FCT163344	54/74FCT163646	
	54/74FCT163501	54/74FCT163244	
	54/74FCT163827	54/74FCT163245	
	74FCT163543	74FCT163373	
	74FCT163601	74FCT163374	
	74FCT163952		

Wafer Fab Technology	CMOS 7	CMOS 7	CMOS 8
Feature Size	0.8µm	0.8µm	0.6µm
Minimum Gate Oxide	140 Å	140 Å	140 Å
Wafer Size	6"	6"	6"
Die Dimension (sq mils)	11.4	6.28	7.76
Fab Facility	Fab 2	Fab 2	Fab 2
Datecode Prefix Designator	N	L	X

Conversion schedule (Estimated)

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	Sample Availability	Production Shipments
54/74FCT163344	Available	February 1, 2000
54/74FCT163501	Available	February 1, 2000

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54/74FCT163646	Available	February 1, 2000
54/74FCT163827	Available	February 1, 2000
54/74FCT163244	Available	February 1, 2000
54/74FCT163245	Available	February 1, 2000
74FCT163373	Available	June 22, 2000
74FCT163374	Available	June 22, 2000
74FCT163543	Available	June 22, 2000
74FCT163601	Available	June 22, 2000
74FCT163952	Available	June 22, 2000

Qualification Data

Test Vehicle: 65501X/65373X/65244X/65646X

	Lot #1	Lot #2	Lot #3
Operating Life Test (Dynamic) (1000 Hrs @125°C, Vcc = 3.3V)	116/0	116/0	116/0
Temperature cycling (-65°C to +150°C, 500cyc)	45/0	45/0	45/0
Bake and Ball Shear Test	20/0	20/0	20/0
Die Shear Test	3/0	3/0	3/0
ESD: HMB Category II (>2kV) Mil-Std 883, Method 3015	3/0	3/0	3/0
ESD: CDM	3/0	3/0	3/0
Latch-up JEDEC Std 17	10/0	N/A	N/A
Electrical characterization	10/0	N/A	N/A
I/O capacitance	5/0	N/A	N/A

Characterization Data:

Characterization Data is available upon request.