



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: <b>L0312-04</b>	DATE: 12/17/03	MEANS OF DISTINGUISHING CHANGED DEVICES:
Product Affected: IDT54FCT162245TEB IDT54FCT162245ATEB IDT54FCT162245CTEB		<input type="checkbox"/> Product Mark <input type="checkbox"/> Back Mark <input checked="" type="checkbox"/> Date Code    Prefix (Stepping) change from "L" to "LB" <input type="checkbox"/> Other
Date Effective: March 16, 2004		

Contact: Bimla Paul	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Title: Quality Assurance Manager	
Phone #: (408)-654-6419	Samples: Available upon request.
Fax #: (408)-492-8362	
E-mail: bimla.paul@idt.com	

**DESCRIPTION AND PURPOSE OF CHANGE:**

- Die Technology
- Wafer Fabrication Process      Fab location change to Hillsboro, Oregon (Fab 4) on these Military Grade Logic products.
- Assembly Process
- Equipment
- Material      The stepping will change from "L" to "LB". There is no change in data sheet specifications.
- Testing
- Manufacturing Site
- 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: _____	<input type="checkbox"/> <b><i>Approval for shipments prior to effective date.</i></b>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone# /Fax# : _____

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

**IDT ACKNOWLEDGMENT OF RECEIPT:**

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



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**ATTACHMENT - PCN #: L0312-04**

**PCN Type:** Fab Location Change

**Data Sheet Change:** None

**Detail of Change:** Fab location change to Hillsboro, Oregon (Fab 4) on these Military Grade Logic products.

The stepping will change from "L" to "LB". There is no change in data sheet specifications.

**The following parts are affected by this change:**

IDT Part Number	DSCC Part Number	Old Stepping	New Stepping
IDT54FCT162245TEB	5962-9227201MXA	L	LB
IDT54FCT162245ATEB	5962-9227202MXA	L	LB
IDT54FCT162245CTEB	5962-9227203MXA	L	LB

### Conversion Schedule:

**Die Revision**

LB Stepping

**Sample Availability:**

Now

**Production Shipment:**

March 16, 2004



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**Qualification Plans:** Following reliability tests were performed on the Mil-Grade LB Stepping.  
The qualification results are as follow:

Test Description	Test Method	Required Sample/ # Fails	LB Stepping (Mil-Grade)
Operating Life Test: Dynamic 184 hrs @ 150°C (Mil-Grade)	Mil-Std 883 Method 1005	116/0	116/0
ESD Human Body Model	Mil-Std 883 Method 3015	3/0	3,500V
Latch up: (Tested to 1.5X Vcc)	EIA/JESD STD-78	6/0	6/0