



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

|                                         |               |                                                                                                                                                                                                                                                      |
|-----------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PCN #: <b>L-0403-07</b>                 | DATE: 3/24/04 | MEANS OF DISTINGUISHING CHANGED DEVICES:<br><input type="checkbox"/> Product Mark<br><input type="checkbox"/> Back Mark<br><input checked="" type="checkbox"/> Date Code Prefix (Stepping) change from "P" to "PB"<br><input type="checkbox"/> Other |
| Product Affected: Please see attachment |               |                                                                                                                                                                                                                                                      |
| Date Effective: June 24, 2004           |               |                                                                                                                                                                                                                                                      |

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

### DESCRIPTION AND PURPOSE OF CHANGE:

- |                                                        |                                                                             |
|--------------------------------------------------------|-----------------------------------------------------------------------------|
| <input type="checkbox"/> Die Technology                |                                                                             |
| <input type="checkbox"/> Wafer Fabrication Process     | Fab location change to Hillsboro, Oregon (Fab 4) on selected Military Grade |
| <input type="checkbox"/> Assembly Process              | Logic products.                                                             |
| <input type="checkbox"/> Equipment                     |                                                                             |
| <input type="checkbox"/> Material                      | The stepping will change from "P" to "PB". There is no change in data sheet |
| <input type="checkbox"/> Testing                       | specifications.                                                             |
| <input checked="" type="checkbox"/> Manufacturing Site |                                                                             |
| <input type="checkbox"/> Data Sheet                    |                                                                             |
| <input type="checkbox"/> 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 #: L-0403-07**

**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 "P" to "PB". 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 |
|-----------------|------------------|--------------|--------------|
| IDT54FCT573TDB  | 5962-9223801MRA  | P            | PB           |
| IDT54FCT573ATDB | 5962-9223802MRA  | P            | PB           |
| IDT54FCT573CTDB | 5962-9223803MRA  | P            | PB           |
| IDT54FCT573TLB  | 5962-9223801M2A  | P            | PB           |
| IDT54FCT573ATLB | 5962-9223802M2A  | P            | PB           |
| IDT54FCT573CTLB | 5962-9223803M2A  | P            | PB           |

### Conversion Schedule:

**Die Revision**

PB Stepping

**Sample Availability:**

Now

**Production Shipment:**

June 24, 2004



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

| Test Description                                            | Test Method                | Required Sample/ # Fails | PB Stepping (Mil-Grade) |
|-------------------------------------------------------------|----------------------------|--------------------------|-------------------------|
| Operating Life Test: Dynamic<br>184 hrs @ 150°C (Mil-Grade) | Mil-Std 883<br>Method 1005 | 116/0                    | 116/0                   |
| ESD Human Body Model                                        | Mil-Std 883<br>Method 3015 | 3/0                      | 2,500V                  |
| Latch up: (Tested to 1.5X Vcc)                              | EIA/JESD<br>STD-78         | 6/0                      | 6/0                     |