



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> I1101-01 <b>Product Affected:</b> 89H32NT24 (Refer to Attachment I)  <b>Date Effective:</b> May 20, 2011	<b>DATE:</b> February 18, 2011	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input checked="" type="checkbox"/> Product Mark      Change in Ordering Part Number <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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<b>Contact:</b> PS Tow <b>Title:</b> Director, Product Assurance <b>Phone #:</b> (408) 284-8206 <b>Fax #:</b> (408) 284-1450 <b>E-mail:</b> <a href="mailto:pstow@idt.com">pstow@idt.com</a>	<b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Samples:</b> Contact your local IDT sales representative for sample requests.
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**DESCRIPTION AND PURPOSE OF CHANGE:**

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input checked="" type="checkbox"/> Other - Die Revision Change	<p>This notification is to advise our customers that IDT has qualified a new die revision to address the device errata. The device die revision will change from "ZA" to "ZB". There will be a change in ordering part number and device top mark.</p> <p>There is no change in die technology/process.</p> <p>Please see attachment for details.</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**  
See attached data. There is no change in die technology/process.

**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>Approval for shipments prior to effective date.</b>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone # /Fax #: _____

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

**IDT ACKNOWLEDGMENT OF RECEIPT:**

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



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### ATTACHMENT I - PCN #: I1101-01

**PCN Type:** Die Revision Change

**Data Sheet Change:** No

**Detail of Change:**

This notification is to advise our customers that IDT has qualified a new die revision to address the device errata. The device die revision will change from "ZA" to "ZB". There will be a change in ordering part number and device top mark as shown in Table 1.

**Table 1**

Old Ordering Part Number	New Ordering Part Number	Old Ordering Part Number	New Ordering Part Number
89H12NT12G2ZAHL	89H12NT12G2ZBHL	89H16NT8BG2ZAHLG	89H16NT8BG2ZBHLG
89H12NT12G2ZAHL8	89H12NT12G2ZBHL8	89H16NT8BG2ZAHLG8	89H16NT8BG2ZBHLG8
89H12NT12G2ZAHLG	89H12NT12G2ZBHLG	89H16NT8BG2ZAHLGI	89H16NT8BG2ZBHLGI
89H12NT12G2ZAHLG8	89H12NT12G2ZBHLG8	89H16NT8BG2ZAHLGI8	89H16NT8BG2ZBHLGI8
89H12NT12G2ZAHLGI	89H12NT12G2ZBHLGI	89H16NT8BG2ZAHLI	89H16NT8BG2ZBHLI
89H12NT12G2ZAHLGI8	89H12NT12G2ZBHLGI8	89H16NT8BG2ZAHLI8	89H16NT8BG2ZBHLI8
89H12NT12G2ZAHLI	89H12NT12G2ZBHLI	89H22NT16G2ZAHL	89H22NT16G2ZBHL
89H12NT12G2ZAHLI8	89H12NT12G2ZBHLI8	89H22NT16G2ZAHL8	89H22NT16G2ZBHL8
89H16NT16G2ZAHL	89H16NT16G2ZBHL	89H22NT16G2ZAHLG	89H22NT16G2ZBHLG
89H16NT16G2ZAHL8	89H16NT16G2ZBHL8	89H22NT16G2ZAHLG8	89H22NT16G2ZBHLG8
89H16NT16G2ZAHLG	89H16NT16G2ZBHLG	89H22NT16G2ZAHLGI	89H22NT16G2ZBHLGI
89H16NT16G2ZAHLG8	89H16NT16G2ZBHLG8	89H22NT16G2ZAHLGI8	89H22NT16G2ZBHLGI8
89H16NT16G2ZAHLGI	89H16NT16G2ZBHLGI	89H22NT16G2ZAHLI	89H22NT16G2ZBHLI
89H16NT16G2ZAHLGI8	89H16NT16G2ZBHLGI8	89H22NT16G2ZAHLI8	89H22NT16G2ZBHLI8
89H16NT16G2ZAHLI	89H16NT16G2ZBHLI	89H24NT24AG2ZAHL	89H24NT24AG2ZBHL
89H16NT16G2ZAHLI8	89H16NT16G2ZBHLI8	89H24NT24AG2ZAHL8	89H24NT24AG2ZBHL8
89H16NT2G2ZAHL	89H16NT2G2ZBHL	89H24NT24AG2ZAHLG	89H24NT24AG2ZBHLG
89H16NT2G2ZAHL8	89H16NT2G2ZBHL8	89H24NT24AG2ZAHLG8	89H24NT24AG2ZBHLG8
89H16NT2G2ZAHLG	89H16NT2G2ZBHLG	89H24NT24AG2ZAHLGI	89H24NT24AG2ZBHLGI
89H16NT2G2ZAHLG8	89H16NT2G2ZBHLG8	89H24NT24AG2ZAHLI	89H24NT24AG2ZBHLI
89H16NT2G2ZAHLGI	89H16NT2G2ZBHLGI	89H24NT24AG2ZAHLI8	89H24NT24AG2ZBHLI8
89H16NT2G2ZAHLGI8	89H16NT2G2ZBHLGI8	89H24NT24G2ZAHL	89H24NT24G2ZBHL
89H16NT2G2ZAHLI	89H16NT2G2ZBHLI	89H24NT24G2ZAHL8	89H24NT24G2ZBHL8
89H16NT2G2ZAHLI8	89H16NT2G2ZBHLI8	89H24NT24G2ZAHLG	89H24NT24G2ZBHLG
89H16NT8BG2ZAHL	89H16NT8BG2ZBHL	89H24NT24G2ZAHLG8	89H24NT24G2ZBHLG8
89H16NT8BG2ZAHL8	89H16NT8BG2ZBHL8	89H24NT24G2ZAHLGI	89H24NT24G2ZBHLGI



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Old Ordering Part Number	New Ordering Part Number	Old Ordering Part Number	New Ordering Part Number
89H24NT24G2ZAHLG8	89H24NT24G2ZBHLG8	89H32NT24AG2ZAHL8	89H32NT24AG2ZBHL8
89H24NT24G2ZAHLI	89H24NT24G2ZBHLI	89H32NT24BG2ZAHL	89H32NT24BG2ZBHL
89H24NT24G2ZAHL8	89H24NT24G2ZBHL8	89H32NT24BG2ZAHL8	89H32NT24BG2ZBHL8
89H24NT6AG2ZAHL	89H24NT6AG2ZBHL	89H32NT24BG2ZAHLG	89H32NT24BG2ZBHLG
89H24NT6AG2ZAHL8	89H24NT6AG2ZBHL8	89H32NT24BG2ZAHLG8	89H32NT24BG2ZBHLG8
89H24NT6AG2ZAHLG	89H24NT6AG2ZBHLG	89H32NT24BG2ZAHLGI	89H32NT24BG2ZBHLGI
89H24NT6AG2ZAHLG8	89H24NT6AG2ZBHLG8	89H32NT24BG2ZAHLI	89H32NT24BG2ZBHLI
89H24NT6AG2ZAHLGI	89H24NT6AG2ZBHLGI	89H32NT24BG2ZAHLI8	89H32NT24BG2ZBHLI8
89H24NT6AG2ZAHLGI8	89H24NT6AG2ZBHLGI8	89H32NT8AG2ZAHL	89H32NT8AG2ZBHL
89H24NT6AG2ZAHLI	89H24NT6AG2ZBHLI	89H32NT8AG2ZAHL8	89H32NT8AG2ZBHL8
89H24NT6AG2ZAHLI8	89H24NT6AG2ZBHLI8	89H32NT8AG2ZAHLG	89H32NT8AG2ZBHLG
89H32NT16BG2ZAHL	89H32NT16BG2ZBHL	89H32NT8AG2ZAHLG8	89H32NT8AG2ZBHLG8
89H32NT16BG2ZAHL8	89H32NT16BG2ZBHL8	89H32NT8AG2ZAHLGI	89H32NT8AG2ZBHLGI
89H32NT16BG2ZAHLG	89H32NT16BG2ZBHLG	89H32NT8AG2ZAHLGI8	89H32NT8AG2ZBHLGI8
89H32NT16BG2ZAHLG8	89H32NT16BG2ZBHLG8	89H32NT8AG2ZAHLI	89H32NT8AG2ZBHLI
89H32NT16BG2ZAHLGI	89H32NT16BG2ZBHLGI	89H32NT8AG2ZAHLI8	89H32NT8AG2ZBHLI8
89H32NT16BG2ZAHLI	89H32NT16BG2ZBHLI	89H32NT8BG2ZAHL	89H32NT8BG2ZBHL
89H32NT16BG2ZAHLI8	89H32NT16BG2ZBHLI8	89H32NT8BG2ZAHL8	89H32NT8BG2ZBHL8
89H32NT24AG2ZAHL	89H32NT24AG2ZBHL	89H32NT8BG2ZAHLG	89H32NT8BG2ZBHLG
89H32NT24AG2ZAHL8	89H32NT24AG2ZBHL8	89H32NT8BG2ZAHLG8	89H32NT8BG2ZBHLG8
89H32NT24AG2ZAHLG	89H32NT24AG2ZBHLG	89H32NT8BG2ZAHLGI	89H32NT8BG2ZBHLGI
89H32NT24AG2ZAHLG8	89H32NT24AG2ZBHLG8	89H32NT8BG2ZAHLGI8	89H32NT8BG2ZBHLGI8
89H32NT24AG2ZAHLGI	89H32NT24AG2ZBHLGI	89H32NT8BG2ZAHLI	89H32NT8BG2ZBHLI
89H32NT24AG2ZAHLI	89H32NT24AG2ZBHLI	89H32NT8BG2ZAHLI8	89H32NT8BG2ZBHLI8

There is no change in die technology/process. Samples are available for customer evaluation upon request.



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**Qualification Test Plan and Result:**

Qualification Plan #:    QI-10-02  
Qual Vehicle:            89H32NT24

Test Description	Test Method (Latest specs in effect)	Test Results (SS / Rej)
Infant Mortality (EFR) 125°C@40 Hrs	JESD22A-108-B	50/0
Operating Lifetest (Dynamic) 125°C@1000 Hrs *	JESD22A-108B	446/0
ESD: Human Body Model @ 2000V	JESD22 A114-E	3/0
ESD: Charged Device Model @ 500V	JESD22-C101	3/0
ESD: Machine Model @ 200V	JESD22, A115	3/0
Latch-up	JESD78	6/0

Note: \* Similar Process Data