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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **I-0809-01** DATE **September 22, 2008**

Product Affected: 89HPES24T6G2, 89HPES24T3G2., 89HPES16T4AG2, 89HPES6T6G2, 89HPES4T4G2

Date Effective: **09/22/2008**

MEANS OF DISTINGUISHING CHANGED DEVICES:

- ■ Product Mark Change in Ordering Part Number
- ☐ Back Mark
- ☐ Date Code
- ☐ Other

Contact: PS Tow
Title: Quality Assurance Director
Phone #: (408) 284-8206
Fax #: (408) 284-8362
E-mail: PS.Tow@idt.com

Attachment:: ■ Yes ☐ No

Samples: N/A

DESCRIPTION AND PURPOSE OF CHANGE:

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

This notification is to advise our customers that IDT has qualified a new die revision to address device errata. The details are as follow:
Device die revision from Mark Revision "ZB" to Mark Revision "ZC" for the products affected (listed above).

There will be a change in ordering part number. Please see attachment for details.

RELIABILITY/QUALIFICATION SUMMARY See attached data. There is no change to the 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: ____________________

☐ ***Approval for shipments prior to effective date.***

Name/Date: ____________________

E-Mail Address: ____________________

Title: ____________________

Phone# /Fax# : ____________________

CUSTOMER COMMENTS: ____________________

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: ____________________ DATE: ____________________

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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT - PCN #: I- 0809-01

PCN Type: Die revision

Data Sheet Change Yes

Detail of Change This notification is to advise our customers that IDT has qualified a new die revision to address the device errata. The details are as follow:
Device die revision from Mark Revision "ZB" to Mark Revision "ZC" for devices 89HPES24T6G2, 89HPES24T3G2., 89HPES16T4AG2, 89HPES6T6G2, 89HPES4T4G2

There will be a change in ordering part number. Please see Table 1 for details.

The new die revision will address the known errata items as follow:

For Mark Revision "ZB" Errata

1. Eliminate "Less than 16 TS2 sent in response to one received TS2".
2. Eliminate "With both Rx and Tx L0s enabled, link may enter Recovery in some situations".

Table 1

ZB to ZC Transition Parts

Old Part #	New Part #
89HPES24T6G2ZBAL	89HPES24T6G2ZCAL
89HPES24T6G2ZBALG	89HPES24T6G2ZCALG
89HPES24T3G2ZBAL	89HPES24T3G2ZCAL
89HPES24T3G2ZBALG	89HPES24T3G2ZCALG
89HPES24T3G2ZBBL	89HPES24T3G2ZCBL
89HPES24T3G2ZBBLG	89HPES24T3G2ZCBLG
89HPES24T3G2ZBBR	89HPES24T3G2ZCBR
89HPES16T4AG2ZBAL	89HPES16T4AG2ZCAL
89HPES16T4AG2ZBALG	89HPES16T4AG2ZCALG
89HPES6T6G2ZBAL	89HPES6T6G2ZCAL
89HPES6T6G2ZBALG	89HPES6T6G2ZCALG
89HPES4T4G2ZBAL	89HPES4T4G2ZCAL
89HPES4T4G2ZBALG	89HPES4T4G2ZCALG

Note: For T&R, "8" suffix is added to the part#

ATTACHMENT - PCN #: I-0809-01

Qualification Data

Test Vehicle: 89HPES24T6G2

Qualification Test Plan and Results:

Test Description	Sample Size/ # Of Fails	Test Results (SS/ # Of Fails
Dynamic High Temp Operating Life Test	77/0	77/0
* Temperature Cycling (-65 °C to 150 °C, 500 cycle)	45/0	45/0
* Highly Accelerated Stress Test (HAST) (130 °C,85% RH, 100 Hrs)	45/0	45/0
ESD HBM	3/0	3/0
ESD CDM	3/0	3/0

Notes: * Test requires Moisture Pre-Conditioning sequence.