



# Product Change Notification

## 107673 - 01

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Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geographic location listed below. No response from customers will be deemed as acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this attached PCN.

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# Product Change Notification

**Change Notification #:** 107673 - 01  
**Change Title:** Boxed Intel® Pentium® Dual-Core Desktop Processors E2160 and E2140, PCN 107673-01, Product Design, L-2 to M-0 Stepping Conversion, Reason for Revision: Updated Description of Change to Customer  
**Date of Publication:** July 03, 2007

## Key Characteristics of the Change:

Product Design

## Forecasted Key Milestones:

<b>Date Customer Must be Ready to Receive Post-Conversion Material:</b>	Jul 23, 2007
<b>Date of First Availability of Post-Conversion Material:</b>	Jul 23, 2007

*The date of "First Availability of Post-Conversion Material" is the projected date that a customer may expect to receive the Post-Conversion Materials. This date is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand, therefore, although customers should be prepared to receive the Post-Converted Materials on this date, Intel will continue to ship and customers may continue to receive the pre-converted materials until the inventory has been depleted.*

## Description of Change to the Customer:

### Reason for Revision: Updated Description of Change to Customer

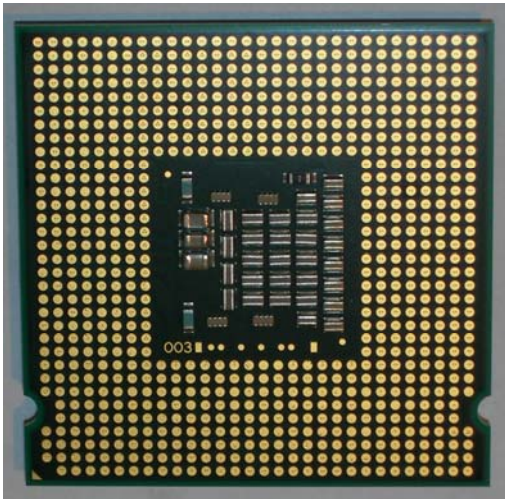
- *Removed* "Extended HALT power specification will reduce from 12 Watts to 8 Watts" statement as the L-2 Intel Pentium dual-core processors E2160 & E2140 Extended HALT power specification is already 8 Watts and is not changing
- *Added* Brand string will be set to report "Intel(R) Pentium(R) Dual CPU" as the L-2 Intel® Pentium® dual core processors E2160 and E2140 brand string was set to report "Genuine Intel(R) CPU" because an "Intel(R) Pentium(R)" string was unavailable with the L-2 stepping

The boxed Intel® Pentium® dual-core desktop processors E2160 and E2140 will undergo the following changes for the L-2 to M-0 stepping conversion:

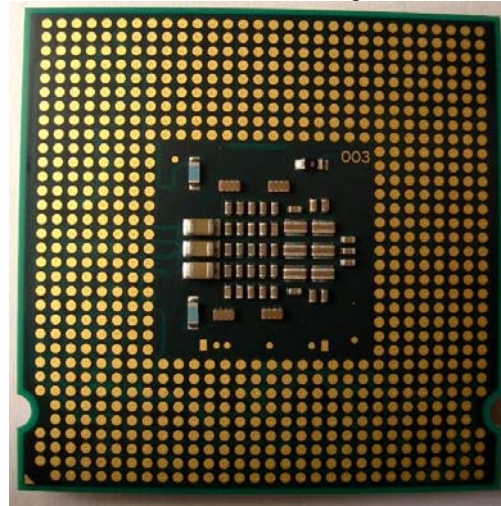
- New S-Spec and Material Master Number for the converting product
- CPUID will change from 6F2 to 6FD
- The Electrical and Mechanical Specifications remain within the current specifications. Intel anticipates no changes to customer platforms designed to previous Intel guidelines

- Thermal specification has changed:
  - Maximum allowed Case Temperature will increase from 61.4°C to 73.2°C
  - Tcontrol offset will remain the same relative to 0 with the increase in maximum allowed Case Temperature, which will help reduce acoustics
- Brand string will be set to report “Intel(R) Pentium(R) Dual CPU” as the L-2 Intel® Pentium® dual core processors E2160 and E2140 brand string was set to report “Genuine Intel(R) CPU” because an “Intel(R) Pentium(R)” string was unavailable with the L-2 stepping
- Minor visible difference between the L-2 and M-0 packages (see below for a visual comparison).
  - While the packages are visually different, the M-0 package is pin-compatible with the L-2 package and Intel anticipates no changes to customer platforms designed to Intel guidelines.

Original L-2 Package



New M-0 Package



## Customer Impact of Change and Recommended Action:

Minimal re-qualification and/or validation is expected for the M-0 stepping conversion due to no feature set changes between the L-2 and M-0 steppings.

Refer to Intel® Pentium® Dual-Core Desktop Processor E2000 Sequence Electrical, Mechanical, and Thermal Specifications (EMTS).

The boxed Intel® Pentium® dual-core desktop processors E2160 and E2140 on M-0 stepping will require a BIOS update. Once customers implement the BIOS update, they will be able to accept both L-2 stepping material and M-0 stepping material. Customers should be ready to receive a combination of both L-2 stepping material and M-0 stepping material by the "Date Customer Must be Ready to Receive Post-Conversion Material" above.

## Products Affected / Intel Ordering Codes:

Marketing Name	Processor#	Frequency	Pre Conversion Product Code	Pre Conversion S-Spec	Pre Conversion MM#	Post Conversion Product Code	Post Conversion S-Spec	Post Conversion MM#
Intel® Dual-Core Processor	E2160	1.80 GHz	BX80557E2160	S LA3H	890322	BX80557E2160	SLA8Z	892574
Intel® Dual-Core Processor	E2140	1.60 GHz	BX80557E2140	S LA3J	890323	BX80557E2140	SLA93	892575

## Reference Documents / Attachments:

Document:

Location #:

## PCN Revision History:

Date of Revision:

Revision Number:

Reason:

June 27, 2007

00

Originally Published PCN

July 3, 2007

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Updated Description of Change to Customer