



# Product Change Notification

## 109983 - 00

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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 #:** 109983 - 00  
**Change Title:** Intel® Core™ i7-640LM, i7-620LM, i7-640UM, i7-620UM & i5-520UM Processors, PCN 109983-00, Product Design, C-2 to K-0 Stepping Conversion

**Date of Publication:** April 23, 2010

## Key Characteristics of the Change:

Product Design

## Forecasted Key Milestones:

<b>Date of Samples Availability:</b>	April 30, 2010
<b>Date of Qualification Data Availability:</b>	March 29, 2010
<b>Date Customer Must be Ready to Receive Post-Conversion Material:</b>	July 30, 2010
<b>Date of First Availability of Post-Conversion Material:</b>	May 17, 2010

*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:

Intel is initiating a C-2 to K-0 stepping conversion for the Intel® Core™ i7-640LM, i7-620LM, i7-640UM, i7-620UM and i5-520UM processors where they will undergo the following changes:

- New S-spec and Material Master Numbers for the converting products.
- CPUID will change from 0x20652h to 0x20655h.
- C-2 package is pin compatible with K-0 package

## Customer Impact of Change and Recommended Action:

The Intel® Core™ i7-640LM, i7-620LM, i7-640UM, i7-620UM and i5-520UM processors on K-0 stepping will require a BIOS update due to the new CPUID. Once customers implement the BIOS update, they will be able to accept both C-2 and K-0 stepping material. Customers should be ready to receive a combination of both C-2 and K-0 stepping material by the "Date Customer Must be Ready to Receive Post-Conversion Material" above. For customers implementing their own BIOS, it is necessary to incorporate the latest Microcode Update (MCU) to support the K-0 stepping. Please contact your local Intel representative for further technical questions.

## Products Affected / Intel Ordering Codes:

Processor#	Frequency	Pre Conversion Product Code	Pre Conversion S-Spec	Pre Conversion MM#	Post Conversion Qualification Samples QDF#	Post Conversion Qualification Samples MM#	Post Conversion Product Code	Post Conversion S-Spec	Post Conversion MM#
i7-620LM	2.00GHz	CN80617003879AD	S LBML	904409	Q 4B8	907485	CN80617003879AD	S LBSU	907970
i7-640LM	2.13GHz	CN80617003885AE	S LBMK	904411	Q 4B9	907487	CN80617003885AE	S LBSV	907971
i7-620UM	1.06GHz	CN80617003882AE	S LBMN	904436	Q 4BB	907489	CN80617003882AE	S LBSX	907972
i7-640UM	1.20GHz	CN80617003888AD	S LBMM	904437	Q 4B5	907490	CN80617003888AD	S LBSR	907968
i5-520UM	1.06GHz	CN80617005352AA	S LBQP	905037	Q 4AZ	907499	CN80617005352AA	S LBSQ	907967

## Reference Documents / Attachments:

Document:

Location #:

## PCN Revision History:

Date of Revision:

April 23, 2010

Revision Number:

00

Reason:

Originally Published PCN