



Product Change Notification

106461 - 00

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

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.

Americas Contact: asmo.pcn@intel.com

Asia Pacific Contact: apacgccb@intel.com

Europe Email: eccb@intel.com

Japan Email: jccb.ijkk@intel.com

Copyright © Intel Corporation 2006. Other names and brands may be claimed as the property of others.

Celeron, Centrino, Intel, the Intel logo, Intel Core, Intel NetBurst, Intel NetMerge, Intel NetStructure, Intel SingleDriver, Intel SpeedStep, Intel StrataFlash, Intel Viiv, Intel XScale, Itanium, MMX, Paragon, PDCharm, Pentium, and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Learn how to use Intel Trade Marks and Brands correctly at <http://www.intel.com/intel/legal/tmusage2.htm>.



Product Change Notification

Change Notification #: 106461 - 00
Change Title: Intel® LVPXA271 & LVPXA272 Processors,
PCN 106461-00, Product Discontinuance
Date of Publication: June 30, 2006

Key Characteristics of the Change:

Product Discontinuance

Forecasted Key Milestones:

Product Discontinuance Program Support Begins:	Jun 30, 2006
Product Discontinuance Demand To Local Intel Representative:	Sep 30, 2006
Last Product Discontinuance Order Date (non-cancelable):	Dec 30, 2006
Last Product Discontinuance Shipment Date:	Jun 30, 2007

Description of Change to the Customer:

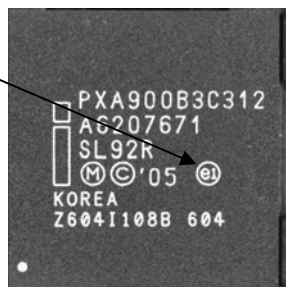
In support of the worldwide initiative to remove non Pb-Free components from electronic equipment and in response to decreasing customer demand, the non Pb-Free versions of the Intel® PXA271 & PXA272 Processor Family will be discontinued and unavailable for additional orders after the "Last Product Discontinuance Order Date" (see "Forecasted Key Milestones" above).

Please refer to the "Products Affected / Intel Ordering Codes" table below for the PXA271 & PXA272 Processor line items included in this notification.

The products listed in the table below have undergone the following changes, in order to be compliant with Intel's Pb-Free/RoHS Initiative:

1. SLI (Second Level Interconnect) solder ball material has been changed from Sn/Pb (tin/lead) to Sn/Ag/Cu (tin/silver/copper) alloy.
2. Pb-Free products are Pb-Free board process compatible and their peak reflow temperature has been increased to 260°C (non Pb-Free peak reflow temperature is 240°C).
3. A new marking "e1" with a circle around it has been added to the top-side product mark per Intel Marking/Labeling Specification #CG-1034 indicating the product SLI is now Pb-Free (see example below).

Pb-Free "e1" Mark
(Example Only)



Note: Non Pb-Free material has not been intentionally added, but may still exist as an impurity below 1,000 ppm.

Finally, the Product Codes and Material Master Numbers (MM#) have been changed to reflect the new Pb-Free packaging as shown below, in the "Products Affected/Intel Ordering Codes" table.

Customer Impact of Change and Recommended Action:

Customers are requested to determine their remaining demand for the non Pb-Free PXA271 & PXA272 Processor line items affected by this PCN and place their "Last Product Discontinuance Orders" in accordance with the "Forecasted Key Milestones" listed above.

Options exist for upgrading non Pb-Free PXA271 and PXA272-based designs to Pb-Free PXA271, PXA272 or PXA270-based (recommended) designs. However, replacement of the leaded PXA271 or PXA272 Processor by the Pb-Free PXA271, PXA272 or PXA270 (recommended) Processor may require varying degrees of engineering design and manufacturing process consideration.

1. Pb-Free SLI products require a new Pb-Free board assembly process. Customers should develop their own board profile envelope appropriate to their equipment, material and products.
2. The new Pb-Free products are not "drop in" replacements or backward compatible with the non Pb-Free board process. Intel recommends running solder joint evaluations in case Pb-Free SLI parts are to be used in a non Pb-Free board assembly process.
3. The appearance of Sn/Ag/Cu solder balls may be grainy and dull when compared to Sn/Pb balls. This may require an adjustment to visual inspection system hardware and software.
4. The PXA270 is not a pin-for-pin replacement for the PXA271 or PXA272 Processors

Please contact your local Intel Sales Representative for more information.

Non Pb-Free versions of the PXA271 & PXA272 Processors will no longer ship after June 30, 2007.

Intel reserves the right to ship aged non Pb-Free material to fulfill partial or all Last Product Discontinuance Shipments.

Products Affected / Intel Ordering Codes:

Component Product Table

Pre-Conversion Product Code	Pre-Conversion MM#	Post-Conversion MM#	Post-Conversion Product Code
LVPXA271FC5312	868444	875783	RVPXA271FC5312
LVPXA271FC5416	868441		
LVPXA272FC5312	868478	869039	RVPXA272FC5312
LVPXA272FC5416	868477	869038	RVPXA272FC5416
LVPXA272FC5520	868476	869037	RVPXA272FC5520

Reference Documents / Attachments:

Document:

Intel Pb-Free Site

MDDS (Material Declaration Datasheet)

Location #:

<http://www.intel.com/research/silicon/leadfree.htm>

<http://www.intel.com/design/PACKTECH/packbook.htm>

PCN Revision History:

Date of Revision:

June 30, 2006

Revision Number:

00

Reason:

Originally Published PCN