



# Product Change Notification

## 106238 - 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 #:** 106238 - 00  
**Change Title:** Intel® LXT9785 Advanced 8-Port 10/100 Mbps PHY Transceiver, LXT971 Single Port 10/100BASE-TX Ethernet Transceiver, and LXT384 Octal LIU Octal PCM Transceiver, PCN 106238-00, Order Code & Product Marking Change  
**Date of Publication:** April 28, 2006

## Key Characteristics of the Change:

Order Code & Product Marking Change

## Forecasted Key Milestones:

|                                                         |               |
|---------------------------------------------------------|---------------|
| Date of Qualification Data Availability:                | Sept 13, 2005 |
| Date of First Availability of Post-Conversion Material: | Sept 30, 2005 |
| Last Product Order Date for Lead-Based Product:         | Mar 30, 2007  |
| Last Product Shipment Date for Lead-Based Product       | Sept 28, 2007 |

## Description of Change to the Customer:

The products listed in table below will undergo the following changes in order to be compliant with Intel's Pb-free/RoHS Initiative:

1. SLI (Second Level Interconnect) solder ball material will change from Sn/Pb to Sn/Ag/Cu alloy.
2. DSC (Die Side Capacitor) attachment process on FCBGA packages will change to Pb-free paste process
3. Products will be Pb-free board process compatible and peak reflow temperature will increase from 220°C to 260°C.
4. Products Level 1 name and mm# will change as shown in the Products Affected Table
5. A new marking "e1" with a circle around it will be added per Intel Marking/Labeling Specification #CG-1034 to indicate that the product SLI is now Pb-free

The marketing package designator will also change to reflect Pb-free packaging. In order to facilitate this change a new MM# has been created for the affected products. Please see table below.

As a result of our investigation, to our knowledge the amount of cadmium, hexavalent chromium, mercury, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE) is either not detected or below the threshold targets for RoHS (Restriction on Hazardous Substances). Please see reference documents.

## Customer Impact of Change and Recommended Action:

All orders are non-cancelable/non-returnable after March 30, 2007 for the Lead-Based Product.

Intel will continue to offer dual line items per the key milestones above to allow our customers time to plan and execute product conversions. Customers not planning on converting their production to allow use of the new products are advised to arrange to purchase a lifetime supply of the existing MM#'s (Pre-Conversion products) prior to the final availability date listed above.

1. Pb-free SLI products require a new Pb-free board assembly process. Each customer should develop their own board profile envelope appropriate to their equipment, material and products.
2. The new products are not "drop in" or backward compatible with the conventional leaded board process. Intel recommends running solder joint evaluations in case Pb-free SLI parts are to be used in a leaded board assembly process.
3. The appearance of Sn/Ag/Cu solder balls may be grainy and dull when compared to shiny Sn/Pb balls. This may require an adjustment to vision system hardware and software.

Due to this change we will start to provide a distinctive symbol and label which identify those components or devices that are totally Pb-free and/or are capable of providing or have Pb-free 2nd level interconnects.

Lead-based version of these parts will no longer ship after September 28, 2007.

Note: Lead (Pb) has not been intentionally added, but may still exist as an impurity below 1000 ppm.

## Products Affected / Intel Ordering Codes:

**Component Product Table**

| Affected Product Code | Affected Conversion Spec/ROM | Affected MM# | Post-Conversion Product Code | Post-Conversion Spec/ROM | Post-Conversion MM# |
|-----------------------|------------------------------|--------------|------------------------------|--------------------------|---------------------|
| FLLXT384BE.B1 835792  |                              | 835792       | ELLXT384BE.B1                |                          | 867808              |
| FLLXT384BE.B1 S E001  | S E001                       | 835903       | ELLXT384BE.B1                | S E001                   | 867810              |
| FLLXT971ABC.A4 834103 |                              | 834103       | ELLXT971ABC.A4               |                          | 870477              |
| FLLXT971ABC.A4 S E001 | S E001                       | 834926       | ELLXT971ABC.A4               | S L8GQ                   | 870478              |
| FLLXT971ABE.A4 834104 |                              | 834104       | ELLXT971ABE.A4               |                          | 870479              |
| FLLXT971ABE.A4 S E001 | S E001                       | 835080       | ELLXT971ABE.A4               | S L8GR                   | 870480              |
| FWLXT9785BC.C2V850117 |                              | 850117       | PRLXT9785BCC2V               |                          | 865130              |
| FWLXT9785BC.D0 853308 |                              | 853308       | PRLXT9785BC.D0               |                          | 865126              |
| FWLXT9785BC.D0 S E001 | S E001                       | 853312       | PRLXT9785BC.D0               | S L7WP                   | 865127              |
| FWLXT9785BCC2V S E001 | S E001                       | 850305       | PRLXT9785BCC2V               | S L7WR                   | 865132              |
| FWLXT9785EBC.D0853300 |                              | 853300       | PRLXT9785EBC.D0              |                          | 865125              |
| FWLXT9785EBC.D0S E001 | S E001                       | 853304       | PRLXT9785EBC.D0              | S L7WQ                   | 865129              |
| FWLXT9785EBCC2V850273 |                              | 850273       | PRLXT9785EBCC2V              |                          | 865165              |

| Affected Product Code | Affected Conversion Spec/ROM | Affected MM# | Post-Conversion Product Code | Post-Conversion Spec/ROM | Post-Conversion MM# |
|-----------------------|------------------------------|--------------|------------------------------|--------------------------|---------------------|
| FWLXT9785EBCC2VS E001 | S E001                       | 850272       | PRLXT9785EBCC2V              | S L7XA                   | 865166              |

## Reference Documents / Attachments:

Document:

Location #:

## PCN Revision History:

Date of Revision:

Revision Number:

Reason:

April 28, 2006

00

Originally Published PCN