



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 Led-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:

April 28, 2006

Revision Number:

00

Reason:

Originally Published PCN