



# Product Change Notification

## 109610 - 03

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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 #:** 109610 - 03  
**Change Title:** DQ45CB and DQ45EK, PCN 109610-03, Product Design, Increase power consumption margin for ErP Lot 6, add an amplified speaker header and BIOS update, Reason for Revision: To correct the AA numbers for BLKDQ45EK and BOXDQ45EK  
**Date of Publication:** March 02, 2010

## Key Characteristics of the Change:

Product Design

## Forecasted Key Milestones:

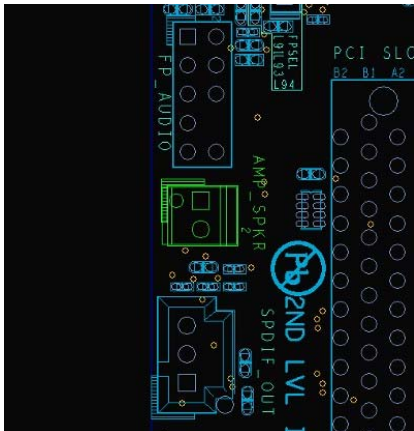
|   |              |
|---|--------------|
| <b>Date Customer Must be Ready to Receive Post-Conversion Material:</b> | Dec 03, 2009 |
|---|--------------|

## Description of Change to the Customer:

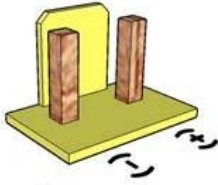
**Reason for Revision:** To correct the AA numbers for BLKDQ45EK and BOXDQ45EK

[DQ45CB only] The desktop board's PCB was modified to add the following:

1. Lower the power consumption in standby which yields increased margin for ErP Lot 6 support.
2. Add a 2-pin header to support an 8-ohm 1-watt internal speaker. The speaker header is amplified. The location of the speaker header is next to the front panel audio header as shown in the figure below:



The header is a 1x2 2.54mm pitch yellow header with an extended back.



[DQ45CB and DQ45EK] Update the BIOS to CBQ4510H.86A.0107. Among other changes, this BIOS will add an option to enable or disable the internal mono speaker header. The default is disabled. If enabled, a new audio driver will be needed. On DQ45CB boards with revisions lower than EXXXXX-300, this option will automatically be hidden. This option will be hidden on all DQ45EK boards.

To access release notes or a copy of the BIOS for evaluation, please go to <http://downloadcenter.intel.com>.

### Customer Impact of Change and Recommended Action:

[DQ45CB only] If the internal mono speaker header is enabled, the audio driver version 6600 and above must be installed. It can be downloaded from <http://downloadcenter.intel.com>. The existing audio driver can be used if the internal mono speaker is disabled.

[DQ45CB and DQ45EK] It is recommended that customers evaluate this new BIOS to ensure a smooth transition. This change has been thoroughly evaluated to ensure that there are no quality or reliability implications to our customers. Intel validation of a new board revision does not include testing with older versions of BIOS. This change is not expected to cause a change to the Microsoft Windows\* operating system's software driver stack.

### Products Affected / Intel Ordering Codes:

| Product Code | MM#    | Pre Change AA | Post Change AA |
|--------------|--------|---------------|----------------|
| BLKDQ45CB    | 896113 | E30148-207    | E30148-301     |
| BOXDQ45CB    | 896114 | E30148-207    | E30148-301     |
| OEMDQ45CBRM1 | 900185 | E51804-202    | E51804-301     |
| BOXDQ45EK    | 896116 | E30149-207    | E30149-209     |
| BLKDQ45EK    | 896133 | E30149-207    | E30149-209     |

### PCN Revision History:

| Date of Revision: | Revision Number: | Reason:  |
|-------------------|------------------|--|
| October 5, 2009   | 00               | Originally Published PCN   |
| October 9, 2009   | 01               | Revise AA numbers and add operating system image impact.                                       |
| November 18, 2009 | 02               | Add DQ45EK and BIOS update, modify recommended action, revise AA numbers, change the milestone |
| March 2, 2010     | 03               | To correct the AA numbers for BLKDQ45EK and BOXDQ45EK  |