



Product Change Notification

103534 - 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 geography 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 #: 103534 - 00
Change Title: D865PERC\D865PESO, PCN 103534-00, FYI,
CPU VREG, P09 BIOS
Date of Publication: August 17, 2003

Type of Change Notification:
FYI - (For Your Information)

Key Characteristics of the Change:
Product Design

Forecasted Key Milestones:

Date of First Availability of Post-Conversion Material:	Sep 29, 2003
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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:

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1. Enhance the CPU VREG for future processor support. This enhancement involves the following changes:

Load Line Changes For Future Processors

Change the resistor value at location R5C17 from 1.21K Ohm to 931 Ohm.

Change the capacitor value at location C5C4 from 680pF to 470 pF

Change the resistor value at location R5C27 from 37.4K Ohm to 20K Ohm

Change the resistor value at location R4C1 from 453K Ohm to 681K Ohm

Change the capacitor value at location C4C5 from 1800 pF to 1000 pF

Change the capacitor value at location C4C6 from 3300 pF to 1000 pF

Add a 820 pF capacitor to location C4C4

Add a 511 K Ohm resistor to location R4C8

Change the resistor value at location R4C9 from 52.3 K Ohm to 75K Ohm

Change the resistor value at location R4C10 from 61.9 K Ohm to 130K Ohm

Change the resistor value at location R4C5 and R4C6 from 110K Ohm to 200K Ohm

Change the 500 nH at locations L2B1 and L3B1 from 30 A to 40 A

Change the bulk capacitors at locations C1C3, C1C2, C2C1, C3C2, C3C1, C4C3, C4C2 to 680uF

Change the bulk capacitors at locations C3C3, C2C2, C2C3 to 820uF
 Change the ceramic capacitors at locations C2D2, C2D1, C3D1,
 C2D3, C2D5, C2D8, C2D9, C2D10, C3E1, C2E1, C2E2, C2E3,
 C2E4, C2E5, C2E6, C2E7, C2E8, C2E9, C2E10, C2E11 to 10 uF

GMCH VTT support

Add transistors to locations Q7B1, Q7C1, Q6B4, Q7B2
 Add 221 Ohm resistor to location R7B6
 Add 562 Ohm resistor to location R7B8
 Add 1K Ohm resistor to location R7B7
 Add 0 Ohm resistor to location R7C1
 Add 1K Ohm resistor to location R7B9
 Add op-amp to location U7B1
 Add 1 uF capacitors to locations C7C3 and C6B6
 Add 4.7 uF capacitor to location C7B11
 Add .1 uF capacitor to location C6B5
 Remove resistor pack from location RP5D1

Processor Detect

Add 15K Ohm resistor to location R6B6
 Add 10K Ohm resistor to location R6B1
 Add 2.7K Ohm resistor to location R6B5
 Add 10K Ohm resistor to location R6B7
 Add transistors to locations Q6B1, Q6B2, Q6B3

Support For Dual Load Lines

Add FET transistor to location Q5C1

Remove pull-down resistor from the processor's bootselect pin

2. Add BIOS P09 so that the system BIOS can be updated in runtime without a system reboot. This BIOS and release notes will be available at the <http://developer.intel.com/design/motherbd/> and listed under D865PERC\D865PESO

Customer Impact of Change and Recommended Action:

This change has been thoroughly evaluated to ensure that there are no quality, reliability or functional implications to our customers. DPSD is not recommending additional qualification of these changes on platforms received from Intel.

These board changes are not expected to cause a change to the Microsoft* Windows* operating system's software driver stack. No expected OS image change.

Products Affected / Intel Ordering Codes:

Board Products Table

Affected Product Code	Pre-Change MM#	Post-Change MM#	Pre-Change TA or AA	Post-Change TA or AA	Pre-Change PBA	Post-Change PBA
LAD865PERC	852411	852411	C28178-403	C28178-404		
LAD865PERCL	852412	852412	C28180-403	C28180-404		
LAD865PERCLK	852413	852413	C28183-403	C28183-404		
LAD865PESO	852415	852415	C29387-403	C29387-404		
LAD865PESOL	852416	852416	C29391-403	C29391-404		
LAD865PESOLK	852418	852418	C29401-404	C29401-405		

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:

August 17, 2003

Revision Number:

00

Reason:

Originally Published PCN