



Product Change Notification

112949 - 01

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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 #: 112949 - 01
Change Title: Intel® Atom™ Processors E3815, E3825, E3826, E3827 and E3845
PCN 112949-01, Product Design
B3 to D0 Stepping Change
Reason for Revision: Revise Milestones and Post Conversion Product Codes
Date of Publication: June 12, 2014

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

Date of Samples Availability:	May 26, 2014
Date of Qualification Data Availability:	Jun 16, 2014
Date of First Availability of Post-Conversion Material:	Jun 16, 2014
Date Customer Must be Ready to Receive Post-Conversion Material:	Sep 30, 2014

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:

Reason for Revision: Revise Milestones and Post Conversion Product Codes

The Intel® Atom™ Processor SOC E3800 product family will undergo the following changes for the B-3 to D-0 stepping change:

1. Improved robustness of USB3 wake after D3
2. Improved USB2 charging capability to support higher current
3. USB2 reference clock improvements to reduce corner case stress scenarios
4. Fixed Power-On Reset Sequence failure (Sighting Alert# 4600919)
5. Certain minor bugs fixed

Customer Impact of Change and Recommended Action:

Customers will need to update their platform software stack using the latest Best Known Configuration (BKC) available.

Thermal Impact Guidance	No thermal change since B3 and D0 will have same feature set. Customers may continue to ship with their current ID and thermal solution.
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Platform Validation Guidance	<p>Intel recommends customers run validation on their platforms paying specific attention to the following areas:</p> <p>Power and Performance: Main KPI's on browsing and video are expected to be the same. It is recommended that customers double check Power and Performance results with D0.</p> <p>It is also recommended that customers perform USB and power management validation test cases.</p>
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Customers should be ready to receive the new material listed in the "Products Affected/Intel Ordering Codes" table below by the "Date Customer Must be Ready to Receive Post-Conversion Material" as shown above in the Key Milestones.

Please contact your Intel Field Sales Representative with any questions, requests or concerns.

Products Affected / Intel Ordering Codes:

Intel® Atom™ Processors									
Pre Conversion					Post Conversion				
Processor#	Frequency	Product Code	S-Spec	MM#	Qual Samples QDF#	Qual Samples MM#	Product Code	S-Spec	MM#
E3815	1.46 GHZ	FH8065301567411	S R1RA	932048	Q GFU	934735	FH8065301567414	S R1XA	935360
E3825	1.33 GHZ	FH8065301567311	S R1RB	932049	Q GFV	934736	FH8065301567313	S R1X9	935359
E3826	1.46 GHZ	FH8065301542213	S R1RC	932050	Q GFW	934737	FH8065301542215	S R1X8	935356
E3827	1.75 GHZ	FH8065301487916	S R1RD	932051	Q GFX	934738	FH8065301487918	S R1X7	935346
E3845	1.91 GHZ	FH8065301487715	S R1RE	932052	Q GFY	934739	FH8065301487717	S R1X6	935332

PCN Revision History:

Date of Revision:

March 19, 2014

[June 12, 2014](#)

Revision Number:

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[01](#)

Reason:

Originally Published PCN

[Revise Milestones and Post Conversion Product Codes](#)