



Product Change Notification

#112976- 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 #: 112976 - 00
Change Title: Select Intel® Pentium® Processors,
Intel® Xeon® Processors, Intel® Celeron® Processor
and Intel Core™ Processors, PCN 112976-00,
Product Design, Package Substrate Change
Date of Publication: April 21, 2014

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	June 23, 2014
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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:

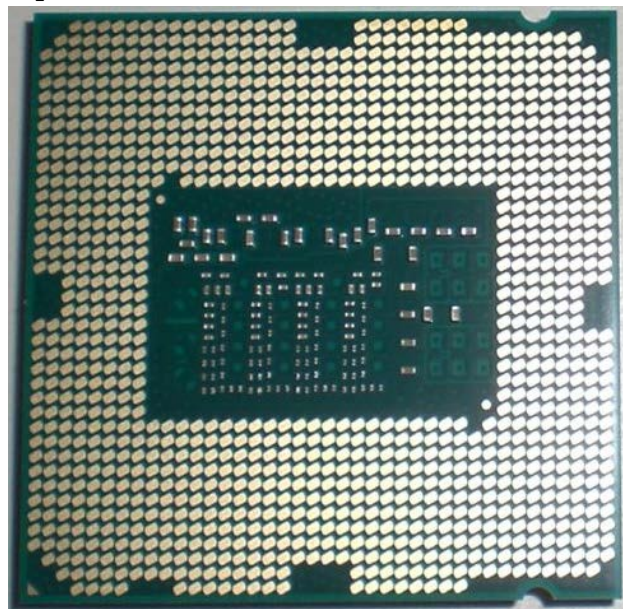
To improve manufacturability, Intel has changed the number and placement of capacitors on the LGA package. This change does not affect electrical specifications or performance, and will not cause a change to the Material Master # for the affected products. (See illustrations below).

Substrate views:

Current



Equivalent



Customer Impact of Change and Recommended Action:

Intel anticipates no change or impact to customer platforms designed to Intel guidelines. While the packages are visually different, they are pin compatible and exhibit the same functionality parameters.

Customers should be ready to receive the new material by the "Date Customer Must be Ready to Receive Post-Conversion Material" as shown above in the milestones above. Customers may want to notify their receiving department of this change.

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

Products Affected / Intel Ordering Codes:

Marketing Name	Processor#	Frequency	Product Code	S-Spec	MM#
Intel® Core™ Processor	i7-4770K	3.5 GHz	CM8064601464206	SR147	927924
Intel® Core™ Processor	i7-4770	3.4 GHz	CM8064601464303	SR149	927928
Intel® Core™ Processor	i5-4670K	3.4 GHz	CM8064601464506	SR14A	927930
Intel® Core™ Processor	i5-4670	3.4 GHz	CM8064601464706	SR14D	927936
Intel® Core™ Processor	i5-4570	3.2 GHz	CM8064601464707	SR14E	927938
Intel® Core™ Processor	i5-4440	3.1 GHz	CM8064601464800	SR14F	927940
Intel® Core™ Processor	i5-4430	3.0 GHz	CM8064601464802	SR14G	927942
Intel® Core™ Processor	i7-4770S	3.1 GHz	CM8064601465504	SR14H	927944
Intel® Core™ Processor	i5-4570S	2.9 GHz	CM8064601465605	SR14J	927951
Intel® Core™ Processor	i5-4670S	3.1 GHz	CM8064601465703	SR14K	927953
Intel® Core™ Processor	i5-4440S	2.8 GHz	CM8064601465804	SR14L	927956
Intel® Core™ Processor	i5-4430S	2.7 GHz	CM8064601465803	SR14M	927958
Intel® Core™ Processor	i7-4770T	2.5 GHz	CM8064601465902	SR14N	927960
Intel® Core™ Processor	i5-4670T	2.3 GHz	CM8064601466003	SR14P	927963
Intel® Core™ Processor	i7-4765T	2.0 GHz	CM8064601466200	SR14Q	927966
Intel® Core™ Processor	i5-4570T	2.9 GHz	CM8064601466203	SR14R	927968
Intel® Xeon® Processor	E3-1275 v3	3.5 GHz	CM8064601466508	SR14S	927970
Intel® Xeon® Processor	E3-1245 v3	3.4 GHz	CM8064601466509	SR14T	927972
Intel® Xeon® Processor	E3-1285 v3	3.6 GHz	CM8064601466703	SR14W	927978
Intel® Xeon® Processor	E3-1280 v3	3.6 GHz	CM8064601467001	SR150	927988
Intel® Xeon® Processor	E3-1270 v3	3.5 GHz	CM8064601467101	SR151	927990
Intel® Xeon® Processor	E3-1240 v3	3.4 GHz	CM8064601467102	SR152	927992
Intel® Xeon® Processor	E3-1230 v3	3.3 GHz	CM8064601467202	SR153	927994
Intel® Xeon® Processor	E3-1220 v3	3.1 GHz	CM8064601467204	SR154	927996
Intel® Xeon® Processor	E3-1230L v3	1.8 GHz	CM8064601467601	SR158	928004
Intel® Xeon® Processor	E3-1265L v3	2.5 GHz	CM8064601467406	SR15A	928007
Intel® Xeon® Processor	E3-1285L v3	3.1 GHz	CM8064601466804	SR15B	928010
Boxed Intel® Core™ Processor	i7-4770K	3.5 GHz	BX80646I74770K	SR147	928550
Boxed Intel® Core™ Processor	i7-4770K	3.5 GHz	BXF80646I74770K	SR147	928551
Boxed Intel® Core™ Processor	i7-4770K	3.5 GHz	BXC80646I74770K	SR147	928552
Boxed Intel® Xeon® Processor	E3-1275 v3	3.5 GHz	BX80646E31275V3	SR14S	928627
Boxed Intel® Xeon® Processor	E3-1245 v3	3.4 GHz	BX80646E31245V3	SR14T	928628
Boxed Intel® Xeon® Processor	E3-1270 v3	3.5 GHz	BX80646E31270V3	SR151	928630
Boxed Intel® Xeon® Processor	E3-1240 v3	3.4 GHz	BX80646E31240V3	SR152	928631
Boxed Intel® Xeon® Processor	E3-1230 v3	3.3 GHz	BX80646E31230V3	SR153	928632
Boxed Intel® Xeon® Processor	E3-1220 v3	3.1 GHz	BX80646E31220V3	SR154	928633
Boxed Intel® Core™ Processor	i7-4770	3.4 GHz	BX80646I74770	SR149	928634
Boxed Intel® Core™ Processor	i5-4670	3.4 GHz	BX80646I54670	SR14D	928635
Boxed Intel® Core™ Processor	i5-4570	3.2 GHz	BX80646I54570	SR14E	928636

Marketing Name	Processor#	Frequency	Product Code	S-Spec	MM#
Boxed Intel® Core™ Processor	i5-4430	3.0 GHz	BX80646I54430	SR14G	928637
Boxed Intel® Core™ Processor	i7-4770S	3.1 GHz	BX80646I74770S	SR14H	928639
Boxed Intel® Core™ Processor	i5-4570S	2.9 GHz	BX80646I54570S	SR14J	928640
Boxed Intel® Core™ Processor	i7-4770	3.4 GHz	BXC80646I74770	SR149	928641
Boxed Intel® Core™ Processor	i5-4670	3.4 GHz	BXC80646I54670	SR14D	928642
Boxed Intel® Core™ Processor	i5-4570	3.2 GHz	BXC80646I54570	SR14E	928643
Boxed Intel® Core™ Processor	i5-4430	3.0 GHz	BXC80646I54430	SR14G	928644
Boxed Intel® Core™ Processor	i5-4670K	3.4 GHz	BX80646I54670K	SR14A	928663
Boxed Intel® Core™ Processor	i5-4670K	3.4 GHz	BXF80646I54670K	SR14A	928664
Boxed Intel® Core™ Processor	i5-4670K	3.4 GHz	BXC80646I54670K	SR14A	928665
Intel® Xeon® Processor	E3-1268L v3	2.3 GHz	CM8064601484200	SR17Y	929225
Intel® Core™ Processor	i5-4570TE	2.7 GHz	CM8064601484301	SR17Z	929226
Intel® Core™ Processor	i3-4330TE	2.4 GHz	CM8064601484402	SR180	929227
Intel® Pentium® Processor	G3320TE	2.3 GHz	CM8064601484501	SR181	929229
Intel® Core™ Processor	i7-4770TE	2.3 GHz	CM8064601538900	SR183	929231
Intel® Core™ Processor	i7-4771	3.5 GHz	CM8064601464302	SR1BW	930209
Intel® Xeon® Processor	E3-1225 v3	3.2 GHz	CM8064601466510	SR1KX	931054
Boxed Intel® Core™ Processor	i5-4440	3.1 GHz	BX80646I54440	SR14F	931230
Boxed Intel® Core™ Processor	i5-4440S	2.8 GHz	BX80646I54440S	SR14L	931231
Boxed Intel® Core™ Processor	i7-4771	3.5 GHz	BX80646I74771	SR1BW	931232
Boxed Intel® Core™ Processor	i5-4440	3.1 GHz	BXC80646I54440	SR14F	931233
Boxed Intel® Core™ Processor	i7-4771	3.5 GHz	BXC80646I74771	SR1BW	931234
Boxed Intel® Xeon® Processor	E3-1225 v3	3.2 GHz	BX80646E31225V3	SR1KX	931525
Intel® Core™ Processor	i7-4790	3.6 GHz	CM8064601560113	SR1QF	931976
Intel® Core™ Processor	i5-4690	3.5 GHz	CM8064601560516	SR1QH	931978
Intel® Core™ Processor	i5-4590	3.3 GHz	CM8064601560615	SR1QJ	931979
Intel® Core™ Processor	i5-4460	3.2 GHz	CM8064601560722	SR1QK	931982
Intel® Core™ Processor	i7-4790S	3.2 GHz	CM8064601561014	SR1QM	931984
Intel® Core™ Processor	i5-4590S	3.0 GHz	CM8064601561214	SR1QN	931994
Intel® Core™ Processor	i5-4690S	3.2 GHz	CM8064601561313	SR1QP	931995
Intel® Core™ Processor	i5-4460S	2.9 GHz	CM8064601561423	SR1QQ	931997
Intel® Core™ Processor	i7-4790T	2.7 GHz	CM8064601561513	SR1QS	931999
Intel® Core™ Processor	i5-4690T	2.5 GHz	CM8064601561613	SR1QT	932003
Intel® Core™ Processor	i7-4785T	2.2 GHz	CM8064601561714	SR1QU	932006
Intel® Xeon® Processor	E3-1276 v3	3.6 GHz	CM8064601575216	SR1QW	932008
Intel® Xeon® Processor	E3-1286 v3	3.7 GHz	CM8064601575203	SR1QX	932009
Intel® Xeon® Processor	E3-1286L v3	3.2 GHz	CM8064601575204	SR1QY	932020
Intel® Xeon® Processor	E3-1246 v3	3.5 GHz	CM8064601575205	SR1QZ	932021
Intel® Xeon® Processor	E3-1226 v3	3.3 GHz	CM8064601575206	SR1R0	932022
Intel® Xeon® Processor	E3-1281 v3	3.7 GHz	CM8064601575329	SR1R2	932024
Intel® Xeon® Processor	E3-1271 v3	3.6 GHz	CM8064601575330	SR1R3	932025
Intel® Xeon® Processor	E3-1241 v3	3.5 GHz	CM8064601575331	SR1R4	932026
Intel® Xeon® Processor	E3-1231 v3	3.4 GHz	CM8064601575332	SR1R5	932027
Intel® Pentium® Processor	G3220	3.0 GHz	CM8064601562017	SR1RK	932168
Intel® Pentium® Processor	G3240	3.1 GHz	CM8064601562018	SR1RL	932169
Intel® Core™ Processor	i5-4590T	2.0 GHz	CM8064601561826	SR1S6	932361
Intel® Core™ Processor	i5-4460T	1.9 GHz	CM8064601561827	SR1S7	932362
Intel® Core™ Processor	i3-4340TE	2.6 GHz	CM8064601618605	SR1T5	932855
Intel® Celeron® Processor	G1820TE	2.2 GHz	CM8064601618705	SR1T6	932857
Intel® Xeon® Processor	E3-1275L v3	2.7 GHz	CM8064601575224	SR1T7	932879
Intel® Xeon® Processor	E3-1240L v3	2.0 GHz	CM8064601575341	SR1T8	932882

Marketing Name	Processor#	Frequency	Product Code	S-Spec	MM#
Boxed Intel® Pentium® Processor	G3220	3.0 GHz	BX80646G3220	SR1RK	933386
Boxed Intel® Pentium® Processor	G3220	3.0 GHz	BXC80646G3220	SR1RK	933388
Boxed Intel® Xeon® Processor	E3-1276 v3	3.6 GHz	BX80646E31276V3	SR1QW	934909
Boxed Intel® Xeon® Processor	E3-1246 v3	3.5 GHz	BX80646E31246V3	SR1QZ	934910
Boxed Intel® Xeon® Processor	E3-1226 v3	3.3 GHz	BX80646E31226V3	SR1R0	934911
Boxed Intel® Xeon® Processor	E3-1271 v3	3.6 GHz	BX80646E31271V3	SR1R3	934912
Boxed Intel® Xeon® Processor	E3-1241 v3	3.5 GHz	BX80646E31241V3	SR1R4	934913
Boxed Intel® Xeon® Processor	E3-1231 v3	3.4 GHz	BX80646E31231V3	SR1R5	934914
Boxed Intel® Core™ Processor	i7-4790	3.6 GHz	BXC80646I74790	SR1QF	934919
Boxed Intel® Core™ Processor	i5-4690	3.5 GHz	BXC80646I54690	SR1QH	934920
Boxed Intel® Core™ Processor	i7-4790	3.6 GHz	BX80646I74790	SR1QF	934923
Boxed Intel® Core™ Processor	i5-4690	3.5 GHz	BX80646I54690	SR1QH	934924
Boxed Intel® Core™ Processor	i7-4790S	3.2 GHz	BX80646I74790S	SR1QM	934925
Boxed Intel® Core™ Processor	i5-4690S	3.2 GHz	BX80646I54690S	SR1QP	934926
Boxed Intel® Core™ Processor	i5-4590	3.3 GHz	BXC80646I54590	SR1QJ	934958
Boxed Intel® Core™ Processor	i5-4590	3.3 GHz	BX80646I54590	SR1QJ	934961
Boxed Intel® Core™ Processor	i5-4590S	3.0 GHz	BX80646I54590S	SR1QN	934962
Boxed Intel® Core™ Processor	i5-4460	3.2 GHz	BX80646I54460	SR1QK	935297
Boxed Intel® Core™ Processor	i5-4460	3.2 GHz	BXC80646I54460	SR1QK	935299

PCN Revision History:

Date of Revision:

April 21, 2014

Revision Number:

00

Reason:

Originally Published PCN