



# Product Change Notification

## 105304 – 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 #:** 105304 - 01  
**Change Title:** Intel® Embedded Microcontrollers and Microprocessors, PCN 105304-01, FFF, Conversion to Lead (Pb)-Free Products  
**Date of Publication:** September 27, 2005

**Type of Change Notification:**  
FFF - (Form-Fit-Function)

**Key Characteristics of the Change:**  
Product Material

## Forecasted Key Milestones:

<b>Date of Qualification Data Availability:</b>	Jul 14, 2005
<b>Date Customer Must be Ready to Receive Post-Conversion Material:</b>	Mar 16, 2006
<b>Date Orders will be Accepted for Post-Conversion Material:</b>	Jul 14, 2005

## Description of Change to the Customer:

### Reason for Revision:

This PCN is being revised to clarify the last availability of leaded material for the products listed in the Affected Products table below. **Customers may place orders for the leaded version of these products through December 16<sup>th</sup>, 2005. Customers must take shipment of this product by March 16<sup>th</sup>, 2006. All products shipped after this date will be Pb-free.**

### From the original PCN:

In order to be inline with Intel's Pb-free initiative we will be adopting a standard process for the products listed in the Products Affected Table below.\* During the standardization process the lead finish will be changed from Tin/Lead (Sn/Pb) to Tin Plating (100% Sn). Tin Plating is a Pb-free process.

## Customer Impact of Change and Recommended Action:

The existing marketing designators being used indicated that there was Pb in the package. By moving to the new marketing designators, the description of the package no longer refers to having Pb in the package, since the Pb has now been removed.

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 version of these parts will no longer ship after December 16, 2005.

\*Note that Lead (Pb) has not been intentionally added, but may still exist as an impurity below 1000 ppm.

**Label as it will appear after change:**

STD INTERMEDIATE BOX LABEL

(P) CUST PROD: (1B) BOX: **XX000013**

(V) SUPPLIER: **04195** (M): (C):

(1P) IPN: **ET80960JT10016**

(S) SPEC: **864017** (30P) MM#: **864017**

(1T) LOT: **L4451234** (Q) QTY: **700** (9D) DATE: **0445**

(1T) LOT: **L4455678** (Q) QTY: **20** (9D) DATE: **0445**

Pb-FREE=e3

ASSEMBLED IN MALAYSIA

MAX REFLOW 260 °C
TEMP
LEVEL 4 HOURS
BAG SEAL DATE 04NOV04

STD INTERMEDIATE BAG LABEL

(P) CUST PROD: (1B) BOX:

(V) SUPPLIER: **04195** (M): (C):

(1P) IPN: **ET80960JT10016**

(S) SPEC: **864017** (30P) MM#: **864017**

(1T) LOT: **L4451234** (Q) QTY: **700** (9D) DATE: **0445**

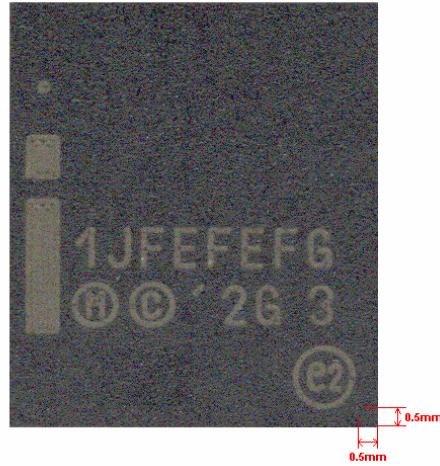
(1T) LOT: **L4455678** (Q) QTY: **20** (9D) DATE: **0445**

Pb-FREE=e3

ASSEMBLED IN MALAYSIA

MAX REFLOW 260 °C
TEMP
LEVEL 4 HOURS
BAG SEAL DATE 04NOV04

**“e<sub>x</sub>” mark on packages. Pb-free mark may be on separate line (as shown below) or on last line of existing mark (copyright line)**



The following categories are meant to describe the Pb-free 2nd level interconnect (see figure 1) terminal finish/material of components and/or the solder paste/solder used in board assembly.
e1 - SnAgCu (shall not be included in category e2)
e2 - Sn alloys with no Bi or Zn excluding SnAgCu
e3 - Sn
e4 - Precious metal (e.g., Ag, Au, NiPd, NiPdAu) (no Sn)
e5 - SnZn, SnZnx (no Bi)
e6 - contains Bi
e7 - low temperature solder ( $\leq 150$ °C) containing Indium (no Bi)

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. Ceramic products are already Pb-free so the package designator will not change. However, the part mark will change to reflect Pb-free product. Please see table below.

<b>Pb Package Designators</b>	<b>Pb-Free Package Designator</b>	<b>Package description</b>	<b>Package abbreviations</b>
A	A	Ceramic Pin Grid Array	PGA
KU	QU	Plastic Quad Flatpack	PQFP
R	R	Ceramic Leadless Chip Carrier	LCC
NG	NT	Plastic Quad Flatpack	PQFP
S	EG	Quad Flat pack	(QFP-EIAJ)
SB	YW	Shrink Quad Flatpack	SQFP-EIAJ
FA	JA	Thin Quad Flat pack	TQFP
FC	UG	Shrink Quad Flatpack with Heat Spreader	PQ2
GD	WL	Plastic Ball Grid Array	PBGA
FW	PR	Plastic Ball Grid Array	PBGA
U	QT	Shrink Dual in line package	SDIP
N	EE	Plastic Lead Chip Carrier	PLCC
P	UJ	Plastic Dual in-line package	PDIP
TN	EN	Plastic Lead Chip Carrier-Extended Temp	PLCC
TP	EJ	Plastic Dual in-line package-Extended Temp	PDIP
TA	TA	Ceramic Pin Grid Array-Extended Temp	PGA
TS	ES	Quad Flat pack-Extended Temp	(QFP-EIAJ)
TG	ET	Plastic Quad Flat pack-Extended Temp	PQFP

## Products Affected / Intel Ordering Codes:

**Component Product Table**

<b>Pre-Conversion Product Code</b>	<b>Pre-Conversion MM#</b>	<b>Post-Conversion Product Code</b>	<b>Post-Conversion MM#</b>
N80960SA16	803825	EE80960SA16512 863981	863981
N80960SA16 S W226	803835	EE80960SA16512 S W226	863979
S80960SA16	803843	EG80960SA16512 863977	863977
TN80960SA16	803846	EN80960SA16512 863974	863974
N80960SA20	803852	EE80960SA20512 863973	863973
N80960SA20 S W227	803859	EE80960SA20512 S W227	863970
N80960SB10	803870	EE80960SB10512 863988	863988
N80960SB16	803883	EE80960SB16512 863986	863986
N80960SB16 S W232	803890	EE80960SB16512 S W232	864010
TN80960SB16	803896	EN80960SB16512 864021	864021
N80960SA10 S W225	810287	EE80960SA10512 S W225	864037
FC80960HA40 S L2GW	813625	UG80960HA4016 S L2GW	863985
FC80960HA25 S L2GU	813626	UG80960HA2516 S L2GU	864034
FC80960HA33 S L2GV	813627	UG80960HA3316 S L2GV	864032
FC80960HT75 S L2GT	815234	UG80960HT7516 S L2GT	864027
FC80960HD66 S L2GN	815238	UG80960HD6616 S L2GN	864025
FC80960HD50 S L2GM	815241	UG80960HD5016 S L2GM	863959
FC80960HD80 S L2LZ	815242	UG80960HD8016 S L2LZ	863961
LS83C51FA1 ROM	808514	BS83C51FA116 R OM	864560
N80C196MC	804195	EE80C196MC 863951	863951
N80C196MD	804212	EE80C196MD 863952	863952
N80C196MH	804221	EE80C196MH 863953	863953
N83C196MC R OM	828946	EE83C196MC16 R OM	864592
N83C196MC R 9099	830280	EE83C196MC16 R 9099	864712
N83C196MD R OM	828953	EE83C196MD16 R OM	864593
N83C196MH R OM	828974	EE83C196MH16 R OM	864597
N87C196MC	803344	EE87C196MC 863926	863926
N87C196MC ROM	803356	EE87C196MC16 R OM	864300
N87C196MD	803624	EE87C196MD 863929	863929
N87C196MD ROM	803630	EE87C196MD16 R OM	864308
N87C196MH	803661	EE87C196MH 863928	863928
N87C196MH ROM	803669	EE87C196MH16 R OM	864329
S80296SA40	806832	EG80296SA40 864494	864494
S80296SA50	806844	EG80296SA50 864495	864495
S80C196EA 816572	816572	EG80C196EA 864391	864391
S80C196KB16	804079	EG80C196KB16 864508	864508
S80C196KC20	804117	EG80C196KC20 864509	864509
S80C196MC	804203	EG80C196MC 864512	864512
S80C196MH	804227	EG80C196MH 864511	864511
S80C196NP25	804249	EG80C196NP25 864521	864521
S80C196NU40	804302	EG80C196NU40 864520	864520
S80C196NU50	804314	EG80C196NU50 864518	864518
S80C31BH1 S F88	809486	EG80C31BH1 S F88	864485
S80C321 S F88	809516	EG80C321 S F88	864484

<b>Pre-Conversion Product Code</b>	<b>Pre- Conversion MM#</b>	<b>Post-Conversion Product Code</b>	<b>Post- Conversion MM#</b>
S80C3224 S F88	810024	EG80C3224 S F88	864406
S80C42 R 1915	860134	EG80C4212 R 1915	864741
S80C42 R 2537	805384	EG80C4212 R 2537	864278
S80C42 R 7006	816134	EG80C4212 R 7006	864675
S80C42 R 7007	812413	EG80C4212 R 7007	864551
S80C42 R 7008	812414	EG80C4212 R 7008	864557
S80C42 R 7025	812415	EG80C4212 R 7025	864559
S80C42 R 7026	805396	EG80C4212 R 7026	864280
S80C42 R 7131	812416	EG80C4212 R 7131	864562
S80C42 ROM	805404	EG80C4212 R OM	864410
S80C51BH R 1406	811528	EG80C51BH12 R 1406	864538
S80C51BH R 1512	821473	EG80C51BH12 R 1512	864696
S80C51BH1 ROM	804020	EG80C51BH116 R OM	864358
S80C51BH24 ROM	804088	EG80C51BH2424 R OM	864367
S80C51FA1 S F88	809572	EG80C51FA1 S F88	864483
S80C51FA24 S F88	809582	EG80C51FA24 S F88	864482
S80C521 ROM	805480	EG80C52116 R OM	864414
S80C5224 ROM	805632	EG80C5224 R OM	864455
S80L196NP	806213	EG80L196NP 864496	864496
S82C42PC 815126	815126	EG82C42PC 864392	864392
S82C42PC R 7107	804641	EG82C42PC12 R 7107	864258
S82C42PD R 7093	812436	EG82C42PD12 R 7093	864564
S82C42PE S U007	812437	EG82C42PE S U007	864394
S83C196KB R 0085	807303	EG83C196KB16 R 0085	864624
S83C196KB16 ROM	808503	EG83C196KB16 R OM	864537
S83C196MC R OM	828957	EG83C196MC16 R OM	864594
S83C196MC R 1862	852587	EG83C196MC16 R 1862	864567
S83C196MD R OM	828958	EG83C196MD16 R OM	864595
S83C196MH R OM	828978	EG83C196MH16 R OM	864598
S83C196MH R 1840	849291	EG83C196MH16 R 1840	864552
S83C196MH R 1928	862217	EG83C196MH16 R 1928	864744
S83C51FA1 ROM	808516	EG83C51FA116 R OM	864569
S83C51FA24 ROM	801001	EG83C51FA24 R OM	864237
S83C51FA33 ROM	801026	EG83C51FA33 R OM	864244
S87C196KB16	802539	EG87C196KB16 864499	864499
S87C196KC20	802755	EG87C196KC20 864500	864500
S87C196KC20 R 5130	825320	EG87C196KC20 R 5130	864699
S87C196KC20 R 5132	829339	EG87C196KC20 R 5132	864793
S87C196KC20 ROM	802767	EG87C196KC20 R OM	864273
S87C196KD20	802931	EG87C196KDH20 864503	864503
S87C196MC	803364	EG87C196MC 864502	864502
S87C196MC R 9077	803443	EG87C196MC16 R 9077	864220
S87C196MC R 9121	814599	EG87C196MC16 R 9121	864633
S87C196MC R 9133	816153	EG87C196MC16 R 9133	864676
S87C196MC ROM	803532	EG87C196MC16 R OM	864301
S87C196MC S F81	803538	EG87C196MC S F81	864504
S87C196MD	803636	EG87C196MD 864505	864505
S87C196MD ROM	803655	EG87C196MD16 R OM	864311



<b>Pre-Conversion Product Code</b>	<b>Pre- Conversion MM#</b>	<b>Post-Conversion Product Code</b>	<b>Post- Conversion MM#</b>
S87C196MH	803677	EG87C196MH 864507	864507
S87C196MH R 6501	809895	EG87C196MH16 R 6501	864604
S87C196MH R 6526	822647	EG87C196MH16 R 6526	864530
S87C196MH ROM	803691	EG87C196MH16 R OM	864334
S87C196MH S F81	803697	EG87C196MH S F81	864942
S87C42	804133	EG87C42 864510	864510
S87C511 S F76	823331	EG87C511 S F76	864390
S87C51FA1 S F76	804439	EG87C51FA1 S F76	864517
S87C51FA24 S F76	810749	EG87C51FA24 S F76	864404
S87C51FB1 S F76	805377	EG87C51FB1 S F76	864515
S87C51FB24 ROM	805563	EG87C51FB24 R OM	864421
S87C51FB33 ROM	805643	EG87C51FB33 R OM	864457
S87C51FC1 ROM	806098	EG87C51FC116 R OM	864460
S87C51FC24 ROM	806444	EG87C51FC24 R OM	864469
S87C51FC33 ROM	806555	EG87C51FC33 R OM	864472
S87C51RA1 ROM	806995	EG87C51RA116 R OM	864475
S87C51RB1 ROM	807282	EG87C51RB116 R OM	864530
S87C51RA24 R OM	823403	EG87C51RA24 R OM	864588
S87C51RB24 ROM	807316	EG87C51RB24 R OM	864534
S87C51RC1 ROM	800228	EG87C51RC116 R OM	864955
S87C51RC24	800375	EG87C51RC24 864491	864491
S87C51RC24 ROM	800384	EG87C51RC24 R OM	864223
S87C521 S F76	810770	EG87C521 S F76	864401
S87C581 ROM	801747	EG87C58116 R OM	864255
S87C581 S F76	810734	EG87C581 S F76	864405
S87C5824 ROM	801798	EG87C5824 R OM	864261
S87C5833 ROM	801872	EG87C5833 R OM	864268
SB80C196KC20 811735	811735	YW80C196KC20 863971	863971
SB80C196NP	804243	YW80C196NP25 865248	865248
SB80C196NP25	804256	YW80C196NP25 864105	864105
SB80C196NU40	804308	YW80C196NU40 864075	864075
SB80C196NU50	804321	YW80C196NU50 864073	864073
SB87C196KC20	802774	YW87C196KC20 864107	864107
SB87C196KC20 ROM	802781	YW87C196KC20 R OM	864275
SB87C186KD20	802938	YW87C196KDH20 864106	864106
SJS1 830074	830074	EGJS1 864389	864389
TN87C196CB 817075	817075	EN87C196CB 864993	864993
TS80C31BH1 S F88	809489	ES80C31BH1 S F88	865040
TS80C321 S F88	809519	ES80C321 S F88	865023
TS80C51FA1 S F88	810998	ES80C51FA16 S F88	865157
TS80C521 ROM	805508	ES80C5216 R OM	864416
TS83C51FA1 ROM	800980	ES83C51FA116 R OM	864326
TS87C51FA1 S F76	811518	ES87C51FA1 S F76	865025
TS87C51FA24 S F76	810982	ES87C51FA24 S F76	865024
TS87C51FB1 ROM	805433	ES87C51FB116 R OM	864413
TS87C51FB1 S F76	812058	ES87C51FB1 S F76	865027
TS87C51FC1 ROM	806230	ES87C51FC116 R OM	864465
TS87C51RA1 ROM	807041	ES87C51RA116 R OM	864478

<b>Pre-Conversion Product Code</b>	<b>Pre- Conversion MM#</b>	<b>Post-Conversion Product Code</b>	<b>Post- Conversion MM#</b>
TS87C51RA24 ROM	807171	ES87C51RA24 R OM	864525
TS87C51RB1 ROM	807288	ES87C51RB116 R OM	864529
TS87C51RB24 ROM	807324	ES87C51RB24 R OM	864535
TS87C51RC1 ROM	800249	ES87C51RC116 R OM	864318
TS87C51RC24	800417	ES87C51RC24 865004	865004
TS87C51RC24 ROM	800427	ES87C51RC24 R OM	864320
SB80486DX2SC50 S X920	800952	YW80486DX2SC508S X920	864076
FA80486GXS F33	801241	JA80486GXS F338 863488	863488
FA80486SXS F33	801362	JA80486SXS F338 863490	863490
TN80C186EA13	802768	EN80C186EA13 864082	864082
TN80C186EA20	802799	EN80C186EA20 864084	864084
TN80C186EA20 S F12	802810	EN80C186EA20 S F12	864086
N80C186EA25	802825	EE80C186EA25 863648	863648
TN80C186EB13	802851	EN80C186EB13 864170	864170
TS80C186EB13	802853	ES80C186EB13 863704	863704
SB80C186EB20	802869	YW80C186EB20 864152	864152
TN80C186EB20	802875	EN80C186EB20 864045	864045
TN80C186EB20 S F12	802881	EN80C186EB20 S F12	864047
TS80C186EB20	802885	ES80C186EB20 863706	863706
N80C186EB25	802891	EE80C186EB25 864179	864179
S80C186EB25	802897	EG80C186EB25 864090	864090
SB80C186EB25	802905	YW80C186EB25 864165	864165
SB80C186EC20	802939	YW80C186EC20 864132	864132
TS80C186EC20	802945	ES80C186EC20 864102	864102
S80C186EC25	802957	EG80C186EC25 863709	863709
SB80C186EC25	802965	YW80C186EC25 864133	864133
N80C186XL12	803020	EE80C186XL12 863496	863496
TN80C186XL12	803077	EN80C186XL12 864088	864088
N80C186XL20	803140	EE80C186XL20 863545	863545
N80C186XL20 S F12	803151	EE80C186XL20 S F12	863546
S80C186XL20	803199	EG80C186XL20 863692	863692
TN80C186XL20	803212	EN80C186XL20 864093	864093
TN80C186XL20 S F12	803227	EN80C186XL20 S F12	864095
TS80C186XL20	803242	ES80C186XL20 864140	864140
N80C186XL25	803256	EE80C186XL25 864199	864199
S80C186XL25	803269	EG80C186XL25 863693	863693
TN80C188EA20	803497	EN80C188EA20 864097	864097
TN80C188EB13	803537	EN80C188EB13 864081	864081
TN80C188EB13 S F12	803543	EN80C188EB13 S F12	864083
SB80C188EB20	803555	YW80C188EB20 864169	864169
TN80C188EB20	803562	EN80C188EB20 864085	864085
TN80C188EB20 S F12	803575	EN80C188EB20 S F12	864087
TS80C188EB20	803586	ES80C188EB20 863707	863707
N80C188EB25	803592	EE80C188EB25 864077	864077
S80C188EB25	803598	EG80C188EB25 864094	864094
SB80C188EB25	803604	YW80C188EB25 864177	864177
SB80C188EC20	803644	YW80C188EC20 864139	864139
TS80C188EC20	803650	ES80C188EC20 864110	864110

<b>Pre-Conversion Product Code</b>	<b>Pre- Conversion MM#</b>	<b>Post-Conversion Product Code</b>	<b>Post- Conversion MM#</b>
S80C188EC25	803664	EG80C188EC25 863712	863712
N80C188XL10 S W149	803670	EE80C188XL10 S W149	863551
N80C188XL12	803698	EE80C188XL12 864111	864111
N80C188XL12 S F12	803712	EE80C188XL12 S F12	863553
N80C188XL12 S N221	803736	EE80C188XL12 S N221	863552
TN80C188XL12	803787	EN80C188XL12 864112	864112
TN80C188XL12 S F12	803793	EN80C188XL12 S F12	864129
N80C188XL20	803820	EE80C188XL20 863554	863554
N80C188XL20 S F12	803826	EE80C188XL20 S F12	863555
S80C188XL20	803850	EG80C188XL20 863702	863702
SB80C188XL20	803856	YW80C188XL20 864149	864149
TN80C188XL20	803867	EN80C188XL20 864135	864135
TS80C188XL20	803878	ES80C188XL20 864143	864143
N80C188XL25	803895	EE80C188XL25 863653	863653
SB80C188XL25	803908	YW80C188XL25 864151	864151
TN80L186EA13	806072	EN80L186EA13 864089	864089
TN80L186EB13	806081	EN80L186EB13 864049	864049
TS80L186EB13	806087	ES80L186EB13 863705	863705
N80L186EB16	806093	EE80L186EB16 864178	864178
S80L186EB16	806099	EG80L186EB16 864092	864092
SB80L186EB16	806105	YW80L186EB16 864168	864168
TN80L188EA13	806131	EN80L188EA13 864109	864109
SB80L188EB13	806143	YW80L188EB13 864176	864176
TN80L188EB13	806149	EN80L188EB13 864050	864050
TS80L188EB13	806156	ES80L188EB13 863708	863708
N80L188EB16	806163	EE80L188EB16 864079	864079
S80L188EB16	806169	EG80L188EB16 864096	864096
SB80L188EB16	806175	YW80L188EB16 864175	864175
SB80L188EC13	806197	YW80L188EC13 864144	864144
FA80386EXTB25	807257	JA80386EXTB25 863487	863487
FA80386EXTC25	807267	JA80386EXTC25 863491	863491
FA80386EXTC33	807274	JA80386EXTC33 863492	863492
SB80C186XL20	808824	YW80C186XL20 864145	864145
SB80C186XL25	808825	YW80C186XL25 864148	864148
N80C188EA25	808826	EE80C188EA25 863654	863654
SB80C188EC25	808828	YW80C188EC25 864141	864141
S80C188XL25	808831	EG80C188XL25 863703	863703
SB80L186EB13	808880	YW80L186EB13 864163	864163
S80L186EC16	808881	EG80L186EC16 863710	863710
TS80L188EC13	808882	ES80L188EC13 864113	864113
TN80C186EB13 S F12	809397	EN80C186EB13 S F12	864043
SB80L186EC13	809626	YW80L186EC13 864136	864136
SB80L188EC16	809627	YW80L188EC16 864147	864147
TN80C186XL12 S F12	810359	EN80C186XL12 S F12	864091
TN80C188XL20 S F12	812057	EN80C188XL20 S F12	864137
N80C186XL25 S F12	815333	EE80C186XL25 S F12	863548
FC80486DX4WB100S L2M9	816435	UG80486DX4WB100S L2M9	863493
N80C188XL25 S F12	828628	EE80C188XL25 S F12	863649

## Reference Documents / Attachments:

<b>Document:</b>	<b>Location #:</b>
Intel Pb-free Site	<a href="http://www.intel.com/research/silicon/leadfree.htm">http://www.intel.com/research/silicon/leadfree.htm</a>
MDDS	<a href="http://www.intel.com/design/PACKTECH/packbook.htm">http://www.intel.com/design/PACKTECH/packbook.htm</a>
JESD97	<a href="http://www.jedec.org/download/default.cfm">http://www.jedec.org/download/default.cfm</a>

## PCN Revision History:

<b>Date of Revision:</b>	<b>Revision Number:</b>	<b>Reason:</b>
July 14, 2005	00	Originally Published PCN
September 27, 2005	01	Clarify last availability of leaded product.